

SOLID STATE COLOR TV

32UDX10S

36UDX10S

OPERATING GUIDE

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IMPORTANT SAFETY INSTRUCTIONS

SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI TELEVISION

Our reputation has been built on the quality, performance, and ease of service of HITACHI televisions.

Safety is also foremost in our minds in the design of these units. To help you operate these products properly, this section illustrates safety tips which will be of benefit to you. Please read it carefully and apply the knowledge you obtain from it to the proper operation of your HITACHI television.

Please fill out your warranty card and mail it to HITACHI. This will enable HITACHI to notify you promptly in the improbable event that a safety problem should be discovered in your product model.

Follow all warnings and instructions marked on this television.

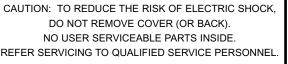


CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of a sufficient magnitude to constitute a risk of electric shock to persons.





The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS TELEVISION TO RAIN OR MOISTURE.

NOTE: ¥There are no user serviceable parts inside the television.

¥Model and serial numbers are indicated on back side of the television.

¥This television is not intended for use in a computer room.

CAUTION: Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by HITACHI could void the user s authority to operate the television.

MODIFICATIONS:

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi America, Ltd. Home Electronics Division may void the user s authority to operate the equipment.

POWER SOURCE

THIS TELEVISION IS DESIGNED TO OPERATE ON 120 VOLTS 60Hz, AC CURRENT. INSERT THE POWER CORD INTO A 120 VOLT 60Hz OUTLET.

TO PREVENT ELECTRIC SHOCK, DO NOT USE THE TELEVISION'S (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLET UNLESS THE BLADES AND GROUND TERMINAL CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NEVER CONNECT THE TELEVISION TO 50HZ, DIRECT CURRENT, OR ANYTHING OTHER THAN THE SPECIFIED VOLTAGE.

This television receiver will display television closed captioning, (CC or), in accordance with NOTE: paragraph 15.119 of the FCC rules.



CAUTION: Never remove the back cover of the television as this can expose you to very high voltages and other hazards. If the television does not operate properly, unplug the television and call your authorized dealer or service center.

IMPORTANT SAFETY INSTRUCTIONS



Read before operating equipment

Follow all warnings and instructions marked on this television.

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult and electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use the attachments/accesories specified by the manufacturer.

12.

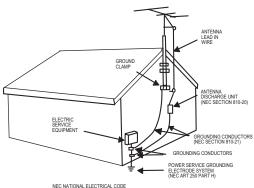


Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- 13. Unplug this aparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Do not place any objects on the top of the television which may fall or cause a child to climb to retrieve the objects.

- 15. Televisions are designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet which could cause the product to overturn resulting in product damage and/or personal injury.
- 16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
- 17. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
- 18. If an outside antenna is connected to the reciever, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode.



Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Disposal of this product may require specific instructions pertaining to your resident state. For Disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance web site at: www.eiae.org.

PREVENTION OF PATTERN BURN

Continuous on-screen displays such as video games, stock market quotations, computer generate graphics, and other fixed (non-moving) patterns can cause permanent damage to television receivers. Such PATTERN BURNS constitute misuse and are **NOT COVERED** by your HITACHI Factory Warranty. When using the Picture-in-Picture function, the sub-picture should not be left permanently in one corner of the screen or a PATTERN BURN may develop over a long period of time.

PUBLIC VIEWING OF COPYRIGHTED MATERIAL

Public viewing of programs broadcast by TV stations and cable companies, as well as programs from other sources, may require prior authorization from the broadcaster or owner of the video program material.



Check that you have the following accessories before disposing of the packing material.

- 1. Remote Control Unit.
- 2. Two AA size, 1.5V batteries (For Remote Control Unit).

For information regarding how to obtain these accessories, please call TOLL FREE 1-800-448-2244 for your nearest HITACHI Authorized Parts Distributor in the continental United States. For Alaska please contact your nearest HITACHI regional office.

PARTNAME	PARTNO.	ILLUSTRATION
36UDX10S 32UDX10S CLU-577TSI REMOTE CONTROL	HL01327	TOTAL
32V TELEVISION STAND SP328S (Not included, order separately)	H530054	CUSTOM HITACHI COLOR TELEVISION STAND Excellent for VCR and videotape storage.
36V TELEVISION STAND SP368S (Not included, order separately)	H530054	Special features include curved smoke glass doors and an adjustable shelf. Available in black.

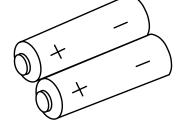


CAUTION: Color television stand model SP328S is designed for use only with a 32 inch or smaller color television set. Television stand model SP368S is designed for use only with a 36 inch or smaller television set.Use of a smaller stand, a non Hitachi recommended stand or a generic stand may result in instability, causing possible injury.

REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

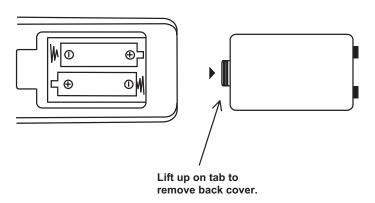


- Open the battery cover of the remote control by pushing the notched part of the cover with your fingers, and pulling the cover off.
- Insert two new AA size batteries in the remote. When replacing old batteries, push them towards the springs and lift them out.
- 3. Match the batteries to the (+) and (-) marks in the battery compartment.



4. Replace the cover.

BOTTOM VIEW





CAUTION: Danger of explosion if battery is incorrectly replaced. Replace with the same or equivalent type.

NOTES:

- 1. If your color television set is to remain unused for a long period of time, for instance when you go on vacation, unplug the color television from the wall outlet.
- 2. Do not subject the remote control to shocks such as dropping it on the floor, etc. Precision parts may be damaged.
- 3. Do not allow the remote control to become wet and avoid placing it in areas of high humidity. Do not leave it on or near a heater. Excess heat or moisture may cause the unit to cease operation.
- 4. If the batteries become exhausted, remote control operation may become erratic or stop altogether. Replace the old batteries with new AA types.

HOW TO SET UP YOUR NEW HITACHI COLOR TV

ANTENNA

Unless your color TV is connected to a cable TV system or to a centralized antenna system, a good outdoor color TV antenna is recommended for best performance. However, if you are located in an exceptionally good signal area that is free from interference and multiple image ghosts, an indoor antenna may be sufficient.

LOCATION

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows a free flow of air to and from the back cover of the set.

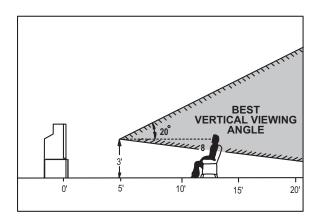
To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the color TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance, etc.

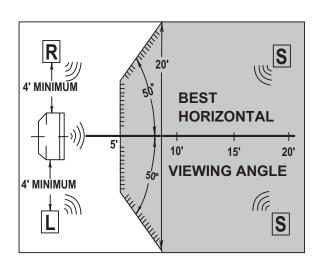
VIEWING

To view the color television screen at its best, test various locations in the room. The drawings below show several suggestions.

The best picture is seen by sitting directly in front of the color TV and about 6 to 9 feet from the screen. During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the color TV can be located in a different section of the room.

If the color TV s audio output will be connected to a Hi-Fi system s external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least four feet from the side of the color television, place the surround speakers to the side or behind the viewing area. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.





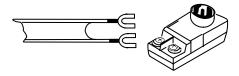
CAUTION:

The magnetic field of external speakers may cause the picture to distort if the speakers are placed too close to the color television. Move the speakers away from the color TV until there is no picture distortion.

HOOK-UP CABLES AND CONNECTORS



Most video/audio connections between components can be made with shielded video and audio cables that have phono connectors. For best performance, video cables should use 75-Ohm coaxial shielded wire. Cables can be purchased from most stores that sell audio/video products. Below are illustrations and names of common connectors. Before purchasing any cables, be sure of the output and input connector types required by the various components and the length of each cable.



300-Ohm Twin Lead Connector

This outdoor antenna cable must be connected to an antenna adapter (300-Ohm to 75-Ohm).



"F" Type 75-Ohm Coaxial Antenna Connector

For connecting RF signals (antenna or cable TV) to the antenna jack on the television.





Phono Connector

Used on all standard video and audio cables which connect to inputs and outputs located on the television s rear jack panel and front control panel.

S-VIDEO (Super Video) Connector

To outdoor antenna

This connector is used on camcorders, VCRs, and laserdisc players with an S-VIDEO feature in place of the standard video cable to produce a high quality picture.

ANTENNA CONNECTIONS TO REAR JACK PANEL

VHF (75-Ohm) antenna/CATV (Cable TV)

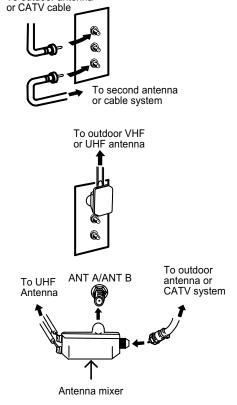
When using a 75-Ohm coaxial cable system, connect the outdoor antenna or CATV coaxial cable to the ANT A (75-Ohm) terminal. If you have a second antenna or cable TV system, connect the coaxial cable to the ANT B terminal.

VHF (300-Ohm) antenna/UHF antenna

When using a 300-Ohm twin lead from an outdoor antenna, connect the VHF or UHF antenna leads to screws of the VHF or UHF adapter. Plug the adapter into the antenna terminal on the TV.

When both VHF and UHF antennas are connected

Attach an optional antenna cable mixer to the TV antenna terminal, and connect the cables to the antenna mixer. Consult your dealer or service store for the antenna mixer.



FRONT PANEL CONTROLS

(1) MENU button

This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote.

(2) INPUT/EXIT button

Press this button to select the current antenna source, VIDEO: 1, 2, 3 or alternate antenna source. Your selection is shown in the top right corner of the screen. This button also serves as the EXIT button when in MENU mode.

(3) CHANNEL selector

Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (\P) and up (\blacktriangle) buttons when in MENU mode.

4 VOLUME level

Press these buttons for your desired sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (\blacktriangleleft) and right (\blacktriangleright) buttons when in MENU mode.

(5) POWER button

Press this button to turn the TV on or off.

6 POWER light (LED)

You will see a red light when the TV is turned on.

(7) REMOTE CONTROL sensor

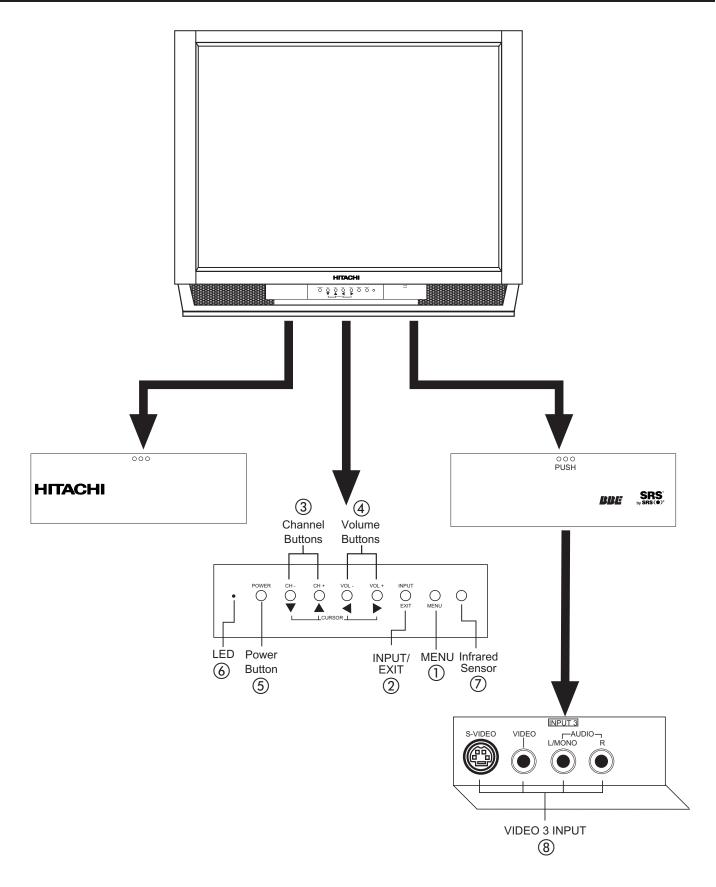
Point your remote at this area when selecting channels, adjusting volume, etc.

(8) FRONT INPUT JACKS (for VIDEO: 3)

Use these audio/video jacks for a quick hook-up from a camcorder or VCR to instantly view your favorite show or new recording. Press the INPUT button until VIDEO: 3 appears in the top right corner of the TV screen. If you have mono sound, insert the audio cable into the left audio jack.

- **NOTES:** 1. Your HITACHI TV will appear to be turned OFF if there is no video input when VIDEO: 1, 2 or 3 is selected. Check the Power Light to make sure the TV is turned off when not in use.
 - To see an auto-demonstration of the on-screen displays with HELP text displayed, press and hold the POWER button on the TV set for approximately five seconds. Press the POWER button on the TV again to end the autodemonstration.

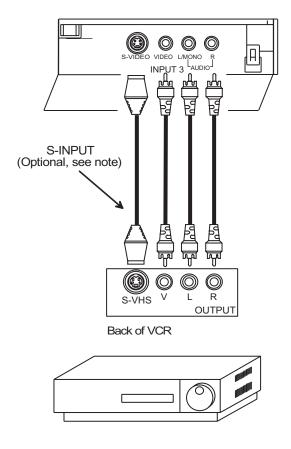


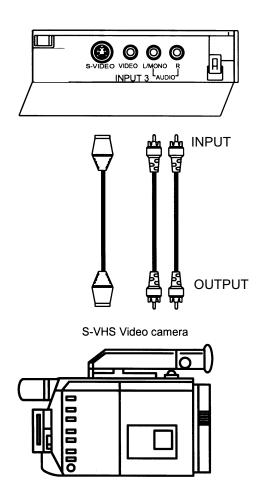




FRONT PANEL JACKS AND CONNECTIONS

The front panel jacks are provided as a convenience to allow you to easily connect a camcorder or VCR as shown in the following examples:

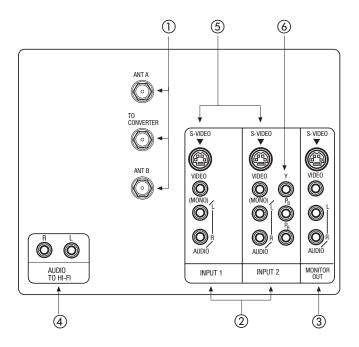




NOTE:

- 1. Completely insert connection cord plugs when connecting to front panel jacks. If you do not, the played back picture may be abnormal.
- 2. If you have a S-VHS VCR, use the S-INPUT cable in place of the standard video cable.
- 3. If you have a mono VCR, insert the audio cable into the left audio jack of your TV.





1 Antenna Input/Output

The remote control allows you to switch between two separate 75-Ohm RF antenna inputs, ANT A and ANT B. ANT A input can be displayed as a main picture or sub-picture. ANT B can only be displayed as a main picture. (ANT B cannot be displayed as a sub-picture.) The antenna output labeled TO CONVERTER allows the ANT A connection to pass directly to a different source such as a cable box, only when ANT B is displayed as a main picture.

(2) Audio/Video Inputs 1 and 2

The INPUT button will step through each video source and antenna source input each time it is pressed. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, DVD players etc. (If you have mono sound, insert the audio cable into the left audio jack.)

NOTE: You may use VIDEO, S-VIDEO, or COMPONENT: Y-P_BP_R inputs to connect to INPUT 1 and 2, but only one of these inputs may be used at a time.

(3) MONITOR OUT

These jacks provide fixed audio and video signals which are used for recording. Use the S-VIDEO Output for high quality video output.

NOTE: S-VIDEO Output may be used for recording, only when the input is of S-VIDEO type.

(4) AUDIO TO HI-FI Output

These jacks provide variable audio output to a separate stereo amplifier. With this connection, the audio to the stereo can be controlled by the television s main volume.

(5) S-VIDEO Inputs 1 and 2

Inputs 1 and 2 provide S-VIDEO (Super Video) jacks for connecting equipment with S-VIDEO output capability.





6 Component: Y-P_BP_R Input

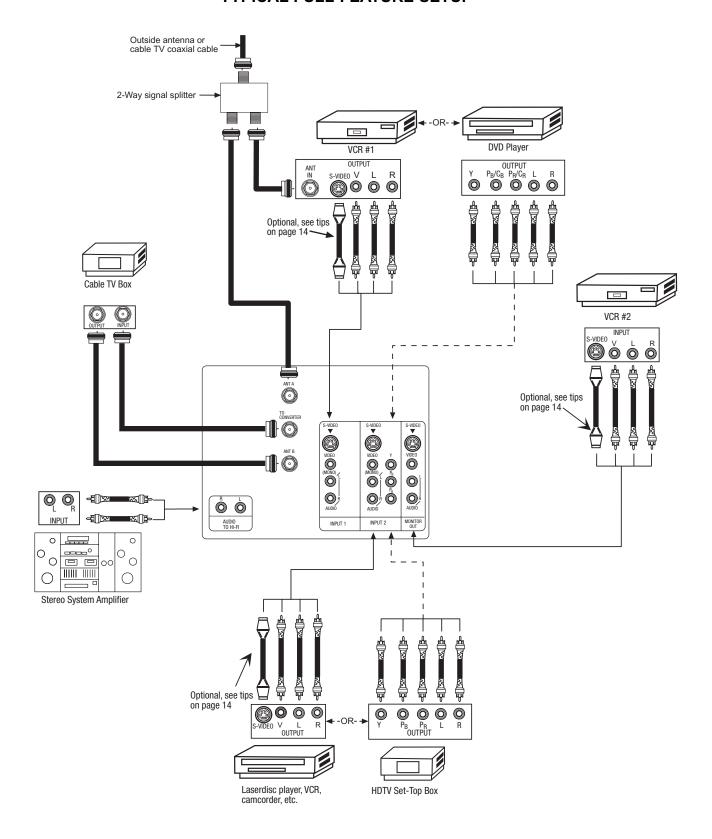
Input 2 provides Y-P_BP_R jacks for connecting equipment with this capability, such as a DVD player or Set Top Box.

NOTES:

- 1. DO NOT connect standard VIDEO or S-VIDEO to Input 2 when using Y-P_BP_R input.
- 2. When using the Y-P_BP_R input jacks, connect your components audio output to the TV s Input 2 Left and Right Audio input jacks.
- 3. Your component output may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV s P_B input and the components R-Y output to the TV s P_B input.
- 4. Your component output may be labeled Y-C_BC_R. In this case, connect the component C_B output to the TV s P_B input and the component C_R output to the TV s P_B input.
- 5. It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-P_BP_R inputs. (See page 54)
- 6. To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-P_BP_R jacks.
- 7. When using the Y-P_BP_R jacks, PIP sub-picture can not be turned ON. It is not possible to view a Y-P_BP_R input while PIP is ON. (See page 25)



TYPICAL FULL-FEATURE SETUP



NOTE:

- Connect only 1 component to each input jack.
 Follow connections that portain to Follow connections that pertain to your personal entertainment system.



TIPS ON REAR PANEL CONNECTIONS

TIPS ON REAR PANEL CONNECTIONS

S-VIDEO connections are provided for high performance laserdisc players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature.

If your device has only one audio output (mono sound), connect it to the left audio jack on the television.

Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.

A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 1 in the example on page 14). Refer to your VCR operating guide for more information on line input-output connections.

You may use VIDEO, S-VIDEO, or COMPONENT: Y-PBPR inputs to connect to Input 2, but only one of these may be used at a time.

Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.

COMPONENT: Y-P_BP_R connections are provided for high performance components, such as DVD players. Use these connections in place of the standard video connection if your device has this feature.

When using the Y-P_RP_R input jack, connect your components audio output to the TV s Input 2 Left and Right Audio input jacks.

Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV s Pb input and the components R-Y output to the TV s P_R input.

Your component outputs may be labeled Y- C_BC_R . In this case, connect the components C_B output to the TV s P_B input and the components C_R output to the TV s P_R input.

It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PRPR inputs. (See page 54)

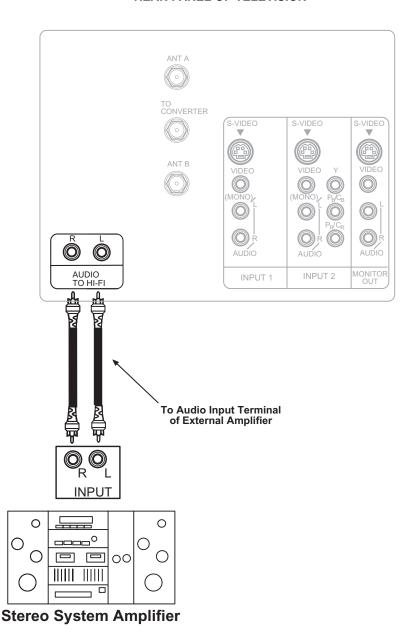
To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR jacks.



CONNECTING EXTERNAL AUDIO AMPLIFIER

To control the audio level of an external audio amplifier with the remote control, connect the system as shown below.

REAR PANEL OF TELEVISION



NOTE: To prevent damage to the speaker and distorted sound, set the volume control of the audio amplifier lower and adjust the sound using the remote control of the TV set.



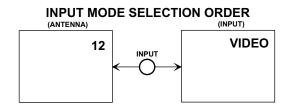
CONNECTING EXTERNAL VIDEO SOURCES

The exact arrangement you use to connect the VCR, camcorder, laserdisc player, DVD player, or HDTV Set Top Box to your TV set is dependent on the model and features of each component. Check the owner's manual of each component for the location of video and audio inputs and outputs.

The following connection diagrams are offered as suggestions. However, you may need to modify them to accommodate your particular assortment of components and features. For best performance, video and audio cables should be made from coaxial shielded wire.

Before Operating External Video Source

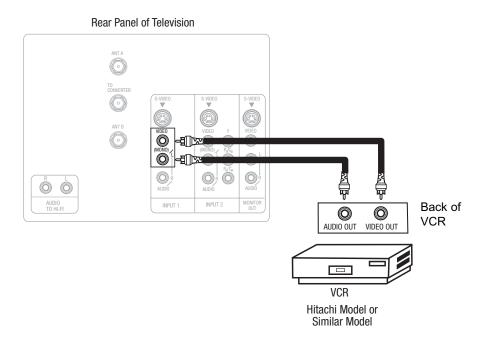
The input mode is changed every time the INPUT button is pressed as shown below. Connect an external source to the INPUT terminal, then press the INPUT button as necessary to view the input source. (See page 24)



NOTE: When the TV is set to VIDEO and a video signal is not received from the VIDEO INPUT JACK on the back panel of the TV (i.e., VCR/laserdisc player, etc. is not connected or the video device is OFF), the set will appear to be OFF.

CONNECTING A MONAURAL AUDIO VCR OR LASERDISC PLAYER

- Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the TV set below.
- 2. Connect the cable from the AUDIO OUT of the VCR or the laserdisc player to the INPUT (MONO)/L(AUDIO) jack.
- Press the INPUT button to view the program from the VCR or the laserdisc player. The VIDEO mode disappears automatically after approximately eight seconds.
- 4. Press the INPUT button to return to the previous channel.

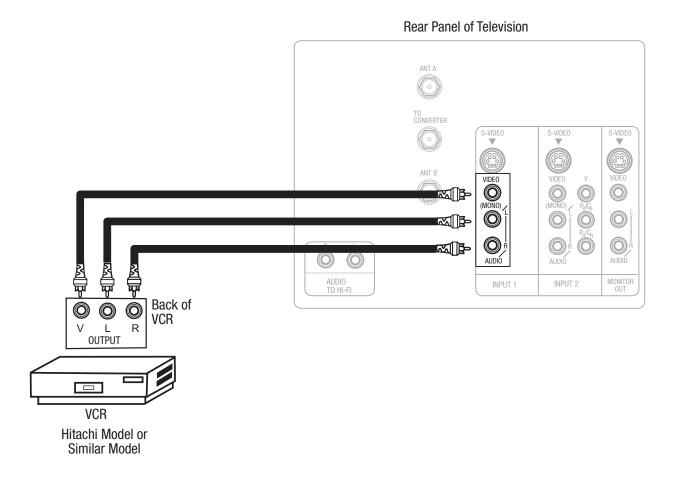


CONNECTING EXTERNAL VIDEO SOURCES



CONNECTING A STEREO VCR OR STEREO LASERDISC PLAYER

- Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the TV set below.
- 2. Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
- 3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.
- 4. Press the INPUT button to view the program from the VCR or laserdisc player. The VIDEO icon disappears automatically after approximately eight seconds.
- 5. Press the INPUT button to return to the previous channel.



NOTES:

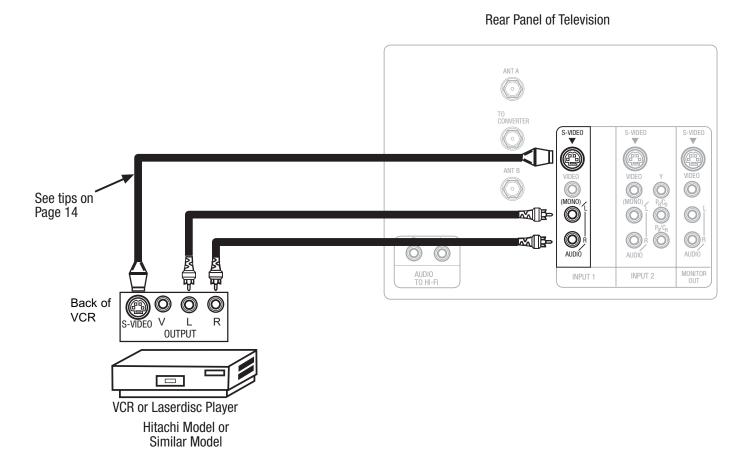
- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output. (INPUT: 1 in example on page 13) Refer to your VCR operating guide for more information on line inputoutput connections.



CONNECTING EXTERNAL VIDEO SOURCES

CONNECTING AN S-VIDEO VCR OR LASERDISC PLAYER

- Connect the cable from the S-VIDEO OUT of the VCR or the laserdisc player to the INPUT (S-VIDEO) jack, as shown on the TV set below.
- 2. Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
- 3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.
- 4. Press the INPUT button to view the program from the VCR or laserdisc player. The VIDEO icon disappears automatically after approximately eight seconds.
- 5. Press the INPUT button to return to the previous channel.



NOTES:

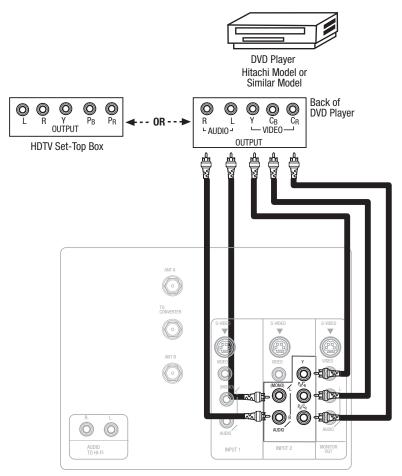
- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output. (INPUT: 1 in example on page 13) Refer to your VCR operating guide for more information on line inputoutput connections.





CONNECTING A STEREO LASERDISC/DVD PLAYER OR HDTV SET TOP BOX TO INPUT 2 COMPONENT: Y-PBPR.

- Connect the cable from the Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (Y) jack, as shown on the TV set below.
- 2. Connect the cable from the C_B/P_B OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_B) jack.
- 3. Connect the cable from the C_R/P_R OUT or R-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_R) jack.
- 4. Connect the cable from the AUDIO OUT R of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/R) jack.
- 5. Connect the cable from the AUDIO OUT L of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/L) jack.
- 6. Press the INPUT button, to view the program from the Laserdisc/DVD player or HDTV set top box. The VIDEO icon disappears automatically after approximately eight seconds.
- 7. Press the INPUT button to return to the previous channel.



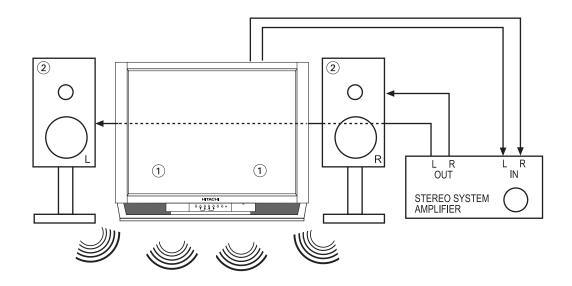
Rear Panel of Television

NOTE:

- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- 2. See page 14 for tips on REAR PANEL CONNECTIONS.

Match the numbers below to the diagrams for speaker placement and refer to the table for the different surround sound requirements. (See page 58 for SRS and BBE functions.)

- 1 The television s internal speakers.
- \bigcirc These speakers are connected to a separate audio amplifier. Use the Audio to HI-FI output on the television.



SRS by SRS (•)° FEATURE	REQUIRED CONNECTION	OPTIONAL CONNECTION	EFFECT
ON	0	2	Exciting and realistic 3D sound experience from just two speakers.
OFF	0	2	Receive mono and stereo sound.

BBE FEATURE	REQUIRED CONNECTION	OPTIONAL CONNECTION	EFFECT
OFF	0	2	Receive mono and stereo sound.
ON	0	2	Sound is natural and crisp from just two speakers.

NOTE: SRS and BBE works and can be turned on at the same time.

THE GENIUS REMOTE CONTROL (CLU-577TSI)



In addition to controlling all the functions on your HITACHI color TV, the new remote control is designed to operate different types of VCRs, CATV (Cable TV) converters, satellite receivers, DVD players, and other audio/video equipment with one touch. Basic operation keys are grouped together in one area.

To operate your TV, point the remote control at the remote sensor of the TV and press the TV button. The TV button will blink, indicating that the remote will now control your television.

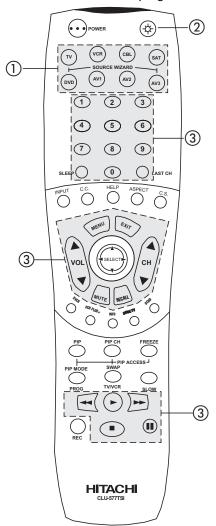
To operate your VCR, point the remote at the remote sensor of the VCR and press the VCR button. The VCR button will blink, indicating that the remote will now control your VCR. (See page 28 for instructions on how to program the remote to control your VCR.)

To operate your cable box, point the remote at the remote sensor of the cable box and press the CABLE (CBL) button. The CBL button will blink, indicating that the remote will now control your cable box. (See page 29 for instructions on how to program the remote to control your cable box.)

To operate your satellite receiver, point the remote at the remote sensor of the satellite receiver and press the SATELLITE (SAT) button. The SAT button will blink, indicating that the remote will now control your satellite receiver. (See page 30 for instructions on how to program the remote to control your satellite receiver.)

To operate your DVD player, point the remote at the remote sensor of the DVD player and press the DVD button. The DVD button will blink, indicating that the remote will now control your DVD player. (See page 31 for instruction on how to program the remote to control your DVD player.)

To operate additional audio/video equipment, point the remote at the remote sensor of the component you wish to control and press the AV1, AV2 or AV3 button. This button will blink, indicating that the remote will now control the desired component. (See page 32 for instructions on how to program the remote to control additional Audio/Video equipment.)

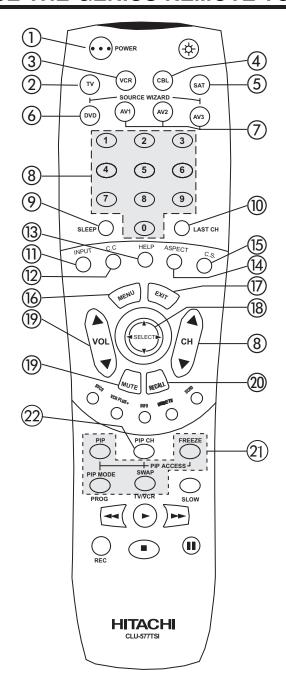


1 These buttons allow the remote to control your TV, VCR, cable box, satellite receiver, DVD player, or other Audio/Video equipment depending on which mode is chosen, as explained above.

2,3 LIGHT BUTTON

When you are in a dark room, press the light button ② on the remote to light up the buttons shown in ③ and the source button will blink. The light will stay on for about 8 seconds if the light button is not pressed again. These buttons will not appear to light if the room is too bright.

HOW TO USE THE GENIUS REMOTE TO CONTROL YOUR TV



(1) POWER button

Press this button to turn the TV set on or off when the remote is in TV mode.

2 TV button

When the TV button is pressed, it will blink, to indicate the remote is in TV mode.

(3) VCR button

When the VCR button is pressed, it will blink to indicate the remote is in VCR mode. (see page 28)

4 CABLE (CBL)

When the CABLE button is pressed, it will blink to indicate the remote is in CABLE mode. (see page 29)

(5) SATELLITE (SAT)

When the SAT button is pressed, it will blink to indicate the remote is in SATELLITE mode. (see page 30)

(6) DVD button

When the DVD button is pressed, it will blink to indicate the remote is in DVD mode. (see page 31)

HOW TO USE THE GENIUS REMOTE TO CONTROL YOUR TV



(7) AV1, AV2, AV3 buttons

When pressed, each of these buttons will blink to indicate the remote is in Audio/Video mode. (see page 32)

(8) CHANNEL selector buttons

CHANNEL selector buttons are used to set FAMILY FAVORITES, CHANNEL MEMORY, etc.

Enter one, two, or three numbers to select channels. Enter 0 first for channels 1 to 9, or simply press the single digit channel you wish to tune then wait a few seconds for the TV to tune. For channels 100 and above, press the 1 button, wait until two dashes appear next to the channel display on your TV, then enter the remaining two numbers using the number buttons. Channel selection may also be performed by pressing CH up (\blacktriangle) or down (\blacktriangledown).

You can also use these number buttons to directly access OSD sub-menu s of your choice. While navigating the On-Screen-Display s, you will notice that each sub-menu has a number next to it. For example, the SET UP menu has 9 sub-menu s. Pressing the ⑦ button while in the SET UP menu will take you directly to the CLOCK SET sub-menu. This makes navigating the menu s faster and easier.

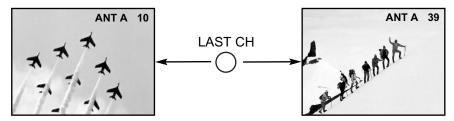
NOTE: The TV may not receive some channels if you are not in the correct SIGNAL SOURCE mode. (see page 38)

(9) SLEEP button

Press this button to display the sleep timer in the lower left corner of the screen. Every subsequent press of this button will add 15 minutes to this timer, up to a maximum of three hours. Once set, use RECALL when you want to view time remaining. If the SLEEP button is pressed while the timer is set, it will reset to the original condition.

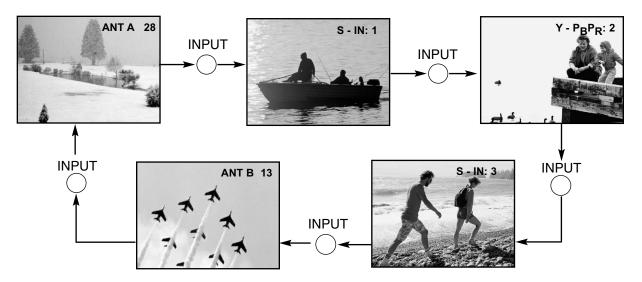
(10) LAST CHANNEL (LAST CH) button

Use this button to select between the last two channels viewed. (Good for watching two sporting events, etc.)



(11) INPUT button

The INPUT button will select between both antenna signals and the three sets of video input jacks each time the button is pressed. If the Picture-in-Picture is on, the INPUT button will select between the three sets of video input jacks and both antenna sources when main channel is chosen with the PIP CH button. If the sub-picture is chosen, the INPUT button will select between the three sets of video input jacks and the ANT A antenna source (ANT B source cannot be displayed as a PIP sub-picture).



(12) C.C. button

Press this button to quickly turn the Closed Caption feature on and off (see page 52 for more information).

(13) HELP button

Press this button when a menu is displayed to view HELP text, which gives a description of the displayed menu. The HELP text will be displayed every time a MENU is displayed, until this button is pressed again.



HOW TO USE THE GENIUS REMOTE TO CONTROL YOUR TV

(14) ASPECT button

Press this button to quickly change the aspect ratio of the viewable video between 4:3 and 16:9. (See page 55 for more information)

(15) COMMERCIAL SKIP (C.S.) button

Press this button repeatedly to select channel skip time (30~180 seconds) when no menu is displayed and the TV will tune to the last channel viewed when the selected amount of time is up. The user can change stations SURF to any station they wish, and after the selected amount of time, the TV will tune back to the original channel.

(16) MENU button

The MENU button will start the On-Screen Display.

(17) EXIT button

When in MENU mode, this button will exit all On-Screen Displays.

(18) THUMB STICK/SELECT button

All the On-Screen Display features can be set or adjusted by using the THUMB STICK.

The THUMB STICK will highlight functions or adjust and set different features. Press the THUMB STICK toward desired direction and press down to SELECT.

(19) VOLUME, MUTE button

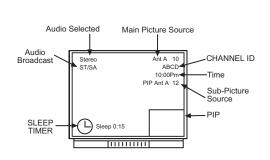
Press the VOLUME up (▲) or down (▼) button until you obtain the desired sound level.

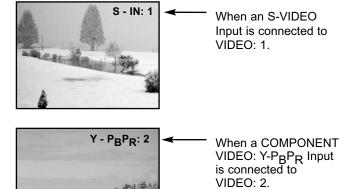
To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the MUTE button. Press the MUTE button again to turn the sound off completely (MUTE). To restore the sound, press the MUTE button one more time, or press the VOLUME Up (**A**) button.



20 RECALL button

Press this button when no menu is displayed when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SAP), the time, CHANNEL ID, if the Commercial Skip (C.S.) function is activated and if the SLEEP timer is set.





21) PICTURE-IN-PICTURE buttons

See separate section on page 25 for a description.

2 PIP CH button

Use the PIP CH button to select between main picture and sub-picture tuning. The channel number which is highlighted indicates what channel is being controlled.

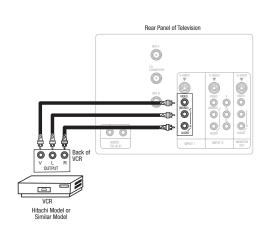
PICTURE-IN-PICTURE (PIP)

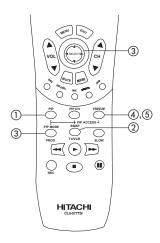


Your HITACHI Color TV incorporates Dual Tuner technology designed for improved viewing enjoyment. This Dual Tuner feature allows you to view antenna inputs on both the main picture and sub-picture simultaneously, with separate tuning control for each. The Dual Tuner can operate with only one input (ANT A only) or two inputs (ANT A and ANT B).

ANT A input can be viewed as both the main picture and the sub-picture simultaneously. ANT B can only be viewed as a main picture. To select between main picture and PIP sub-picture tuning, press the PIP CH button on the remote. The highlighted channel display will move with every press of the PIP CH button. When the top channel display is highlighted, channel tuning is for the main picture. When the lower channel display is highlighted, channel tuning is for the PIP sub-picture. This method of picture tuning is the same for one antenna input (ANT A only) and two antenna inputs (ANT A and ANT B).

The Picture-in-Picture feature is convenient when you want to watch more than one program at the same time. You can watch a TV program while viewing other programs from the ANT A source or any of the video inputs.





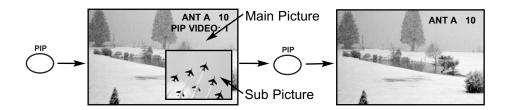
Use above connection to view VCR program as a sub-picture while viewing another program as main picture (ANT A, ANT B, V:2 or V:3 input). You may also view the VCR program as a main picture while viewing another program as a sub-picture (ANT A, V:2 or V:3 input).

1 PIP button

Press the PIP button and a sub-picture will appear in one of the two different modes (SINGLE or SURF), depending on the last selection of the PIP mode. To change the PIP mode, use the PIP MODE button to cycle through the two different modes.

SINGLE MODE PIP

Press the PIP button and a sub-picture appears in one corner of the screen. Press the PIP button again to remove the sub-picture from the screen. Use the PIP CH button to select between main and sub-picture tuning control (indicated by highlighted channel display.) Press the INPUT button when sub-picture channel tuning is being controlled, to change between VIDEO: 1, VIDEO: 2, VIDEO: 3, and ANT A antenna source. (ANT B source cannot be viewed as a sub-picture.)



NOTES: 1. If you tune the main channel to a Y-P_BP_R input, the TV set will automatically turn the PIP sub-picture OFF.

- 2. When a Y-P_BP_R input is selected as PIP, it will appear as a blank sub-picture.
- 3. When main channel is tuned to a Y-P_BP_R input you will not be able to access the PIP functions.
- 4. When ANT B is selected as the main channel, the SWAP feature is disabled.
- 5. Only sound from the main picture can be heard.
- 6. If PARENTAL CONTROL MOVIE/TV RATINGS setting is ON, only PIP SINGLE mode will be allowed.

PICTURE-IN-PICTURE (PIP)

PICTURE-IN-PICTURE CONT. SURF MODE PIP

This feature will automatically scan all active channel numbers (those set in memory) and display them as PIP sub-pictures, along the right edge of the screen. Press the PIP button a second time to remove the sub-pictures from the screen.

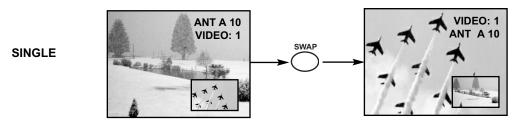


NOTES: 1. If no buttons are pressed when in SURF mode, auto-scanning will continuously scan channels in memory. (see pages 40 and 41)

- 2. If a channel is tuned during this SURF scanning, sub-pictures will be removed from the screen.
- 3. SURF MODE PIP is allowed only when ANT A is selected as the main channel.
- 4. If PARENTAL CONTROL MOVIÉ/TV RATINGS setting is ON, PIP SURF mode will be deactivated.

(2) SWAP button

If you wish to switch what is being shown on the main picture to the sub-picture, press the SWAP button.

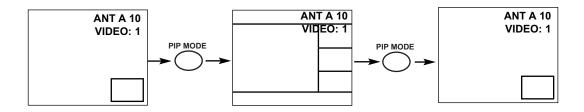


NOTES: 1. The SWAP button will only operate when SINGLE PIP mode is chosen.

2. The SWAP function will not operate if ANT B input is set as the main channel (ANT B input cannot be displayed as a sub-picture.)

(3) PIP MODE button

To change between the two different PIP modes (SINGLE or SURF) press the PIP MODE button when PIP is ON. Each press of this button will change PIP to a different mode. Pressing this button two times will cycle through both PIP modes.



NOTES: 1. When main channel is COMPONENT: Y-P_BP_R input, viewing a PIP sub-picture is not allowed.

2. SURF mode PIP is only allowed when ANT A is the main picture.

PICTURE-IN-PICTURE (PIP)



4 FREEZE button (With PIP ON)

If you wish to freeze the sub-picture, press the FREEZE button. This is convenient when trying to write down the address for a mail order company, recording statistics for a sporting event, etc. To return the picture to motion, press the FREEZE button again.

NOTE: The FREEZE function will only operate when SINGLE PIP mode is chosen.

(5) FREEZE button (With PIP OFF)

Press the FREEZE button to freeze the picture, depending on the mode selected (SINGLE or STROBE). To change FREEZE modes, use the PIP MODE button to cycle through the two different modes.

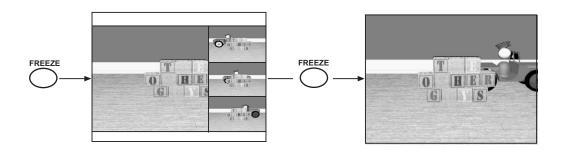
SINGLE FREEZE

Press the FREEZE button to freeze one frame of the picture you are currently viewing. Press this button again or PIP to return to normal viewing.



STROBE FREEZE

Press the FREEZE button to freeze three frames of the picture you are currently viewing. Press this button again or PIP to return to normal viewing. This feature is useful for viewing a moving picture that has many details, for example, a close play in a sporting event or a golf swing.



CAUTION:

A pattern burn may develop if the sub-picture is left in the same corner permanently. If the PIP feature is used frequently, occasionally MOVE the sub-picture using the THUMB STICK \blacktriangleleft , \blacktriangleright , \blacktriangle , or \blacktriangledown .

NOTES: 1. Each freeze frame is delayed about 0.1 (1/10) second.

2. When viewing a COMPONENT: Y-P $_B$ P $_R$ INPUT, FREEZE is not allowed.



USING THE REMOTE TO CONTROL VCR FUNCTIONS

Operating the precoded function for your VCR.

This remote is designed to operate different types of VCRs. You must first program the remote to match the remote system of your VCR. (refer to page 33 for pre-codes)

- 1. Turn ON your VCR.
- 2. Aim the remote control at the front of your VCR.
- 3. Press and release the VCR button to switch to VCR pre-coded mode.
- 4. Hold down the VCR button on the remote and enter the two digit preset code that matches your VCR, as shown on page 33. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the VCR and press the POWER button. The remote will turn off your VCR when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your VCR. If the VCR does not turn off, try a different two digit preset code.
- 6. The remote will now control your VCR.

NOTES:

- If your VCR cannot be operated after performing the above procedures, your VCRs code has not been precoded into the remote.
- 2. In the unlikely event that your VCR cannot be operated after performing the above procedures, please consult your VCR operating guide.
- 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- The MENU button will act as the VCR MENU button for HITACHI VCRs.
- 5. The LAST CH button will act as your VCR ENTER button if required.
- The SLEEP button will act as your VCR 100 button if required.
- (1) VCR Button

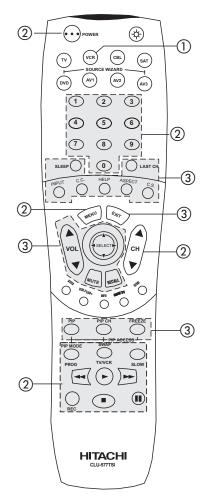
This button allows the remote to control your VCR by setting it to VCR mode.

(2) PRECODED VCR Buttons

These buttons transmit the chosen precoded VCR codes. For some VCRs, you must press the RECORD button twice to record a program.

(3) EXCLUSIVE TV Buttons

These buttons are for operating the TV.



MY VCR CODE IS:_____

NOTE: Refer to instruction manual of the VCR for operation of the buttons exclusively for the VCR.

28

USING THE REMOTE TO CONTROL CABLE BOX FUNCTIONS



Operating the precoded function for your cable box.

This remote is designed to operate different types of cable boxes. You must first program the remote to match the remote system of your cable box. (refer to page 33)

- 1. Turn ON your cable box.
- 2. Aim the remote control at the front of your cable box.
- 3. Press and release the Cable (CBL) button to switch to Cable pre-coded mode.
- 4. Hold down the CBL button on the remote and enter the two digit preset code that matches your cable box as shown on page 33. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the cable box and press the POWER button. The remote will turn off your cable box when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your cable box. If the cable box does not turn off, try a different two digit preset code.
- 6. The remote will now control your Cable box.

NOTES:

- If your cable box cannot be operated after performing the above procedures, your cable box code has not been precoded into the remote.
- In the unlikely event that your cable box cannot be operated after performing the above procedures, please consult your cable box operating guide.
- The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- The LAST CH button will act as the cable box ENTER button if required.
- The SLEEP button will act as your cable box 100 button if required.
- The INPUT button will act as the TV/SAT button when in SAT mode.
- 1 CABLE (CBL) button

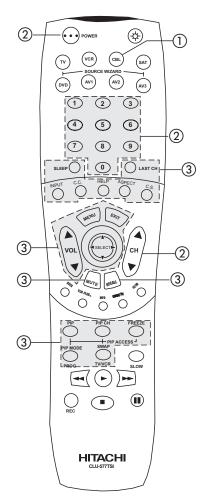
This button allows the remote to control your cable box by setting it to CABLE mode.

(2) PRECODED CABLE BOX buttons

These buttons transmit the chosen precoded cable codes.

(3) EXCLUSIVE TV buttons

These buttons are for operating the TV.



MY CABLE BOX CODE IS:_____

NOTE: Refer to instruction manual of the Cable Box for operation of the buttons exclusively for the Cable Box.



USING THE REMOTE TO CONTROL SATELLITE RECEIVER FUNCTIONS

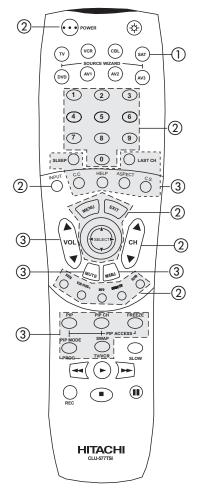
Operating the precoded function for your satellite receiver.

This remote is designed to operate different types of satellite systems. You must first program the remote to match the remote system of your satellite receiver. (refer to page 33)

- 1. Turn ON your satellite receiver.
- 2. Aim the remote control at the front of your satellite receiver.
- Press and release the SATELLITE (SAT) button to switch to satellite pre-coded mode.
- 4. Hold down the SAT button on the remote and enter the two digit preset code that matches your satellite receiver as shown on page 33. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the satellite receiver and press the POWER button. The remote will turn off your satellite receiver when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your satellite receiver. If the satellite receiver does not turn off, try a different two digit preset code.
- 6. The remote will now control your satellite receiver.

NOTES:

- If your satellite receiver cannot be operated after performing the above procedures, your satellite receiver code has not been precoded into the remote.
- In the unlikely event that your satellite receiver cannot be operated after performing the above procedures, please consult your satellite receiver operating guide.
- The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- The INPUT button will act as the TV/SAT button when in SAT mode.
- 1 SATELLITE (SAT) button
 This button allows the remote to control your satellite receiver by setting it to SATELLITE mode.
- PRECODED SATELLITE RECEIVER buttons
 These buttons transmit the chosen precoded satellite codes.
- 3 EXCLUSIVE TV buttons These buttons are for operating the TV.



MY SATELLITE RECEIVER CODE IS:_

NOTE: Refer to instruction manual of the Satellite Receiver for operation of the buttons exclusively for the Satellite Receiver.

USING THE REMOTE TO CONTROL DVD FUNCTIONS



Operating the precoded function for your DVD player.

This remote is designed to operate different types of DVD players. You must first program the remote to match the remote system of your DVD player. (refer to page 33 for pre-codes)

- 1. Turn ON your DVD player.
- 2. Aim the remote control at the front of your DVD player.
- 3. Press and release the DVD button to switch to DVD pre-coded mode.
- 4. Hold down the DVD button on the remote and enter the two digit preset code that matches your DVD player, as shown on page 33. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the DVD player and press the POWER button. The remote will turn off your DVD player when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your DVD player. If the DVD player does not turn off, try a different two digit preset code.
- 6. The remote will now control your DVD player.

NOTES:

- 1. If your DVD player cannot be operated after performing the above procedures, your DVD players code has not been precoded into the remote.
- In the unlikely event that your DVD player cannot be operated after performing the above procedures, please consult your DVD player operating guide.
- The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- 1 DVD Button

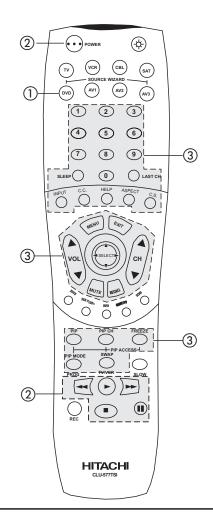
This button allows the remote to control your DVD player by setting it to DVD mode.

(2) PRECODED DVD Buttons

These buttons transmit the chosen precoded DVD codes.

(3) EXCLUSIVE TV Buttons

These buttons are for operating the TV.



MY DVD PLAYER CODE IS:___

NOTE: Refer to instruction manual of the DVD player for operation of the buttons exclusively for the DVD player.

USING THE REMOTE TO CONTROL ADDITIONAL AUDIO/VIDEO EQUIPMENT

Operating the precoded function for your Audio/Video component.

This remote is designed to operate different types of Audio/Video component. You must first program the remote to match the remote system of your Audio/Video component. (refer to page 33 for pre-codes)

- 1. Turn ON your Audio/Video component you wish to control with the Remote.
- 2. Aim the remote control at the front of your Audio/Video component.
- 3. Press and release the AV1, AV2 or AV3 button to switch to Audio/Video component pre-coded mode.
- 4. Hold down the AV1, AV2 or AV3 button on the remote and enter the two digit preset code that matches your Audio/Video component, as shown on page 33. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the Audio/Video component and press the POWER button. The remote will turn off your Audio/Video component when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your Audio/Video component. If the Audio/Video component does not turn off, try a different two digit preset code.
- 6. The remote will now control your Audio/Video component.
- 7. Repeat steps 1 6 if you wish to program the remote to control another Audio/Video component. Be sure to use a different A/V button on the remote, since only one component can be programmed per button.

NOTES:

- If your Audio/Video component cannot be operated after performing the above procedures, your Audio/Video component s code has not been precoded into the remote.
- 2. In the unlikely event that your Audio/Video component cannot be operated after performing the above procedures, please consult your Audio/Video equipment operating guide.
- The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- 1 AV1, AV2, AV3 Buttons

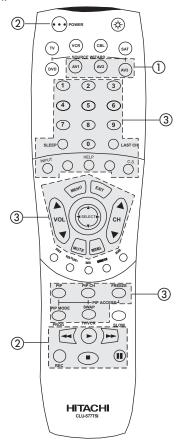
These buttons allows the remote to control your Audio/Video equipment by setting it to Audio/Video mode.

(2) PRECODED AUDIO/VIDEO Buttons

These buttons transmit the chosen precoded Audio/Video component codes.

(3) EXCLUSIVE TV Buttons

These buttons are for operating the TV.



MY	AUDIO/VIDEO	EQUIPMENT	CODE IS:
		۸\/1	

AV2____

NOTE: Refer to instruction manual of the Audio/Video equipment for operation of the buttons exclusively for the Audio/Video equipment.

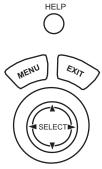
VCR, CABLE, SATELLITE, DVD and AUDIO/VIDEO CODES (CLU-577TSI)

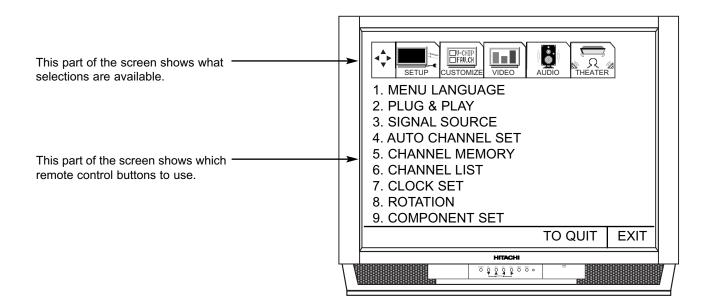


			-
VCR BRANDCODE	Phillips 22 20 21	Contoo 21	Lloyd c 00
	Phillips 23, 29, 31	Contec	Lloyd s
Adventura	Pilot24	Dae Ryung	Magnavox 01, 06, 09
Aiko	Pioneer	Eastern	Marantz 01, 06, 16
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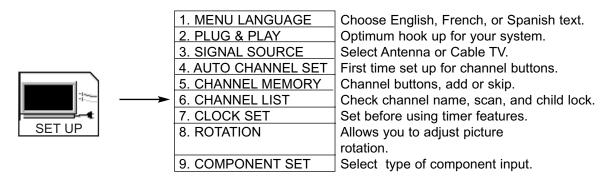


- 1. Press MENU on the remote control to display the different features on your HITACHI Projection TV.
- 2. Press the THUMB STICK to highlight a different feature.
- 3. Press EXIT on the remote control to quickly exit from a menu.
- 4. Press HELP on the remote control when a menu is displayed, and text will appear giving a description of that menu.



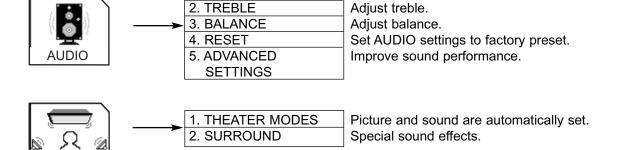








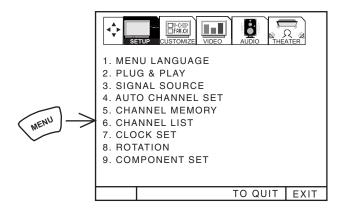








Select SETUP when setting your TV up for the first time. Use the THUMB STICK ▲ or ▼ on the remote to highlight the function desired.

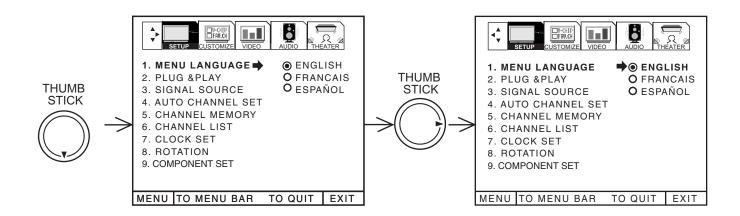


Use THUMB STICK ▲ or ▼ to select the sub-menu of your choice. You can also use the number buttons to directly access the sub-menu of your choice. For example, pressing the ⑦ button while in the OSD shown above, will take you directly to the CLOCK SET sub-menu.

NOTE: To see an auto-demonstration of the on-screen displays with HELP text displayed, press and hold the POWER button on the TV set for approximately five seconds. Press the POWER button on the TV again to end the auto-demonstration.

MENU LANGUAGE

This feature will allow you to select any one of three different languages for all on-screen displays.



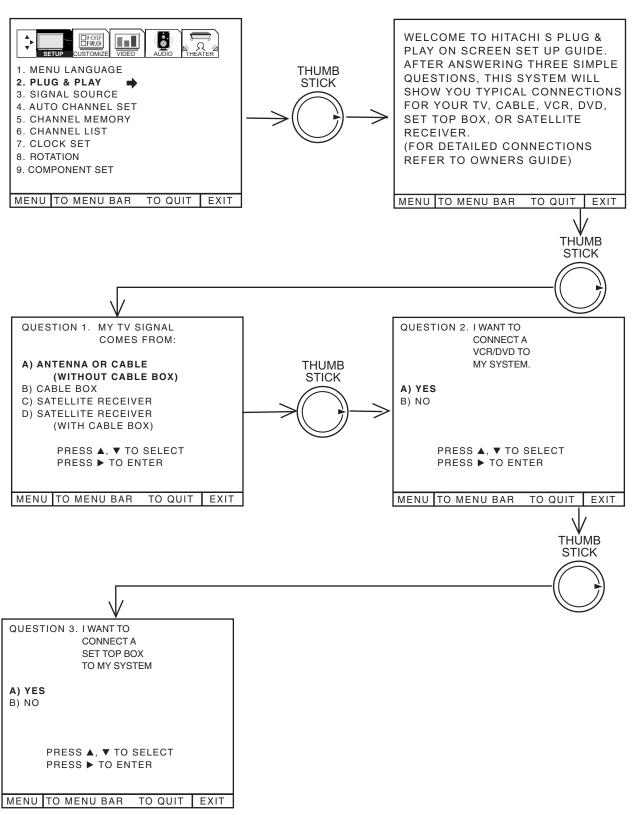
Use THUMB STICK ▲ or ▼ to select the MENU LANGUAGE of your choice.

Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.



PLUG & PLAY

This graphic guide function will help you to properly set up your TV or Home Theater System. Simply answer three questions and a graphic will be displayed, showing you the optimum setup for your personalized system.



Press THUMB STICK ▲ or ▼ to highlight the correct answers to all three questions.

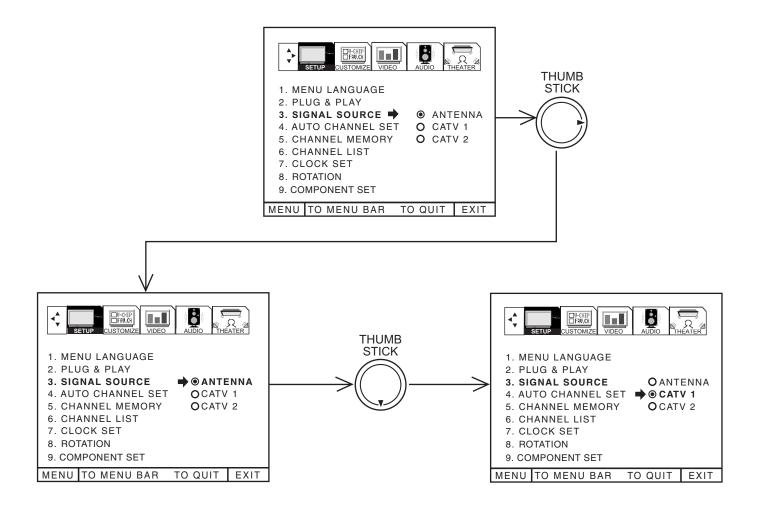
Press THUMB STICK ▶ to display the graphic guide.

Press EXIT to quit menu or THUMB STICK ▶ to begin AUTO CHANNEL SET. (see page 39)



SIGNAL SOURCE

Select ANTENNA if you are using an indoor or outdoor antenna. Select CATV if you have cable TV.



Press THUMB STICK ▲ or ▼ to highlight and select the correct SIGNAL SOURCE mode. Press EXIT to quit MENU or THUMB STICK ◀ to return to previous menu.

RECEPTION BAND						
	CATV 1 OR CATV 2					
AIR	CATV CHANNEL	Indicated on				
		the screen				
	VHF 2~13	2 ~ 13				
	Mid band A~1	14 ~ 22				
VHF 2 ~ 13ch	A-5 ~ A-1	95 ~ 99				
UHF 14 ~ 69ch	Super band J~W	23 ~ 36				
	Hyper band	37 ~ 64				
	W + 1 ~ W + 28					
	Ultraband	65 ~ 125				
	W + 29 ~ W + 84					

Reception channels for each mode are shown at the left.

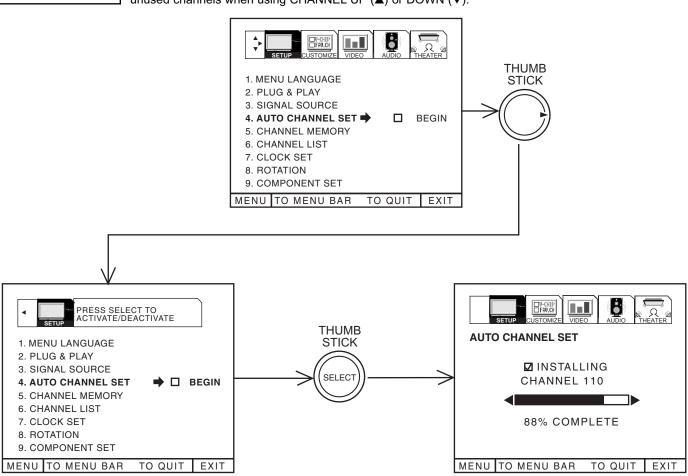
Refer to your cable or TV guide for channel identification standards.

If certain CATV channels are poor or not possible in CATV1 mode, set SIGNAL SOURCE to CATV2.



AUTO CHANNEL SET

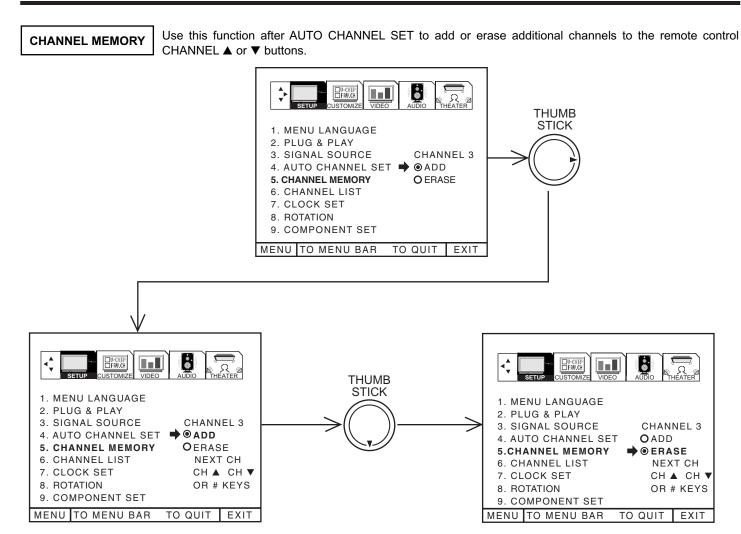
This feature will automatically store active TV channels in CHANNEL MEMORY. This will allow you to skip unused channels when using CHANNEL UP (▲) or DOWN (▼).



If the EXIT button is pressed while the AUTO CHANNEL SET function is engaged, programming will stop. If two antenna are connected, switch antenna inputs with the INPUT button and repeat AUTO CHANNEL SET for the second antenna input.

Remember to select the correct SIGNAL SOURCE mode before using AUTO CHANNEL SET. See CHANNEL MEMORY to add or to erase additional channels.





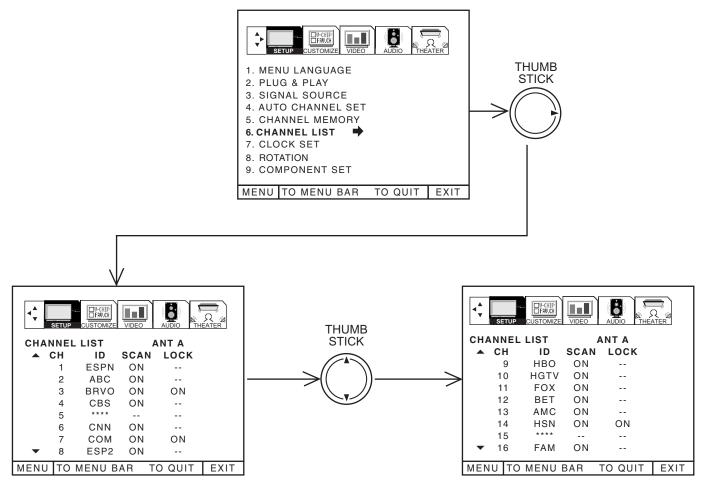
Add or erase additional channels while still in CHANNEL MEMORY using CHANNEL ▲ or ▼ or the number buttons to change the channel.

Press EXIT to quit menu or THUMB STICK \blacktriangleleft to return to previous menu.



CHANNEL LIST

This function allows you to review which channels are labeled in CHANNEL ID (ID.), which have been added to CHANNEL MEMORY (SCAN), and which are protected by PARENTAL CONTROL (LOCK).



Press THUMB STICK ▲ or ▼ to review more channels.

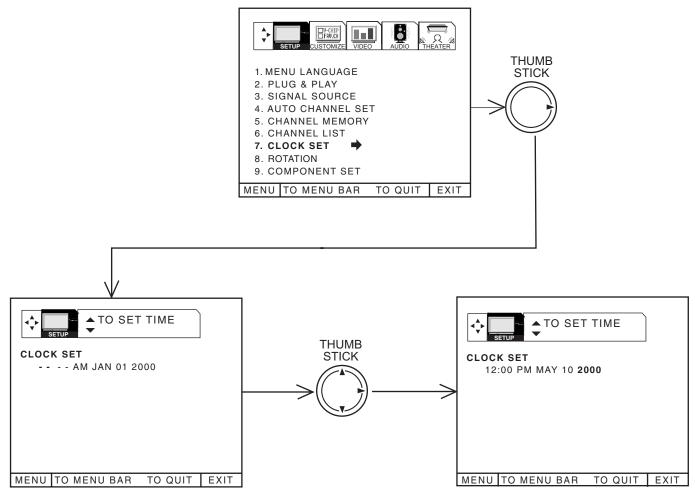
Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

NOTE: Each touch of THUMB STICK ▲ or ▼ will display the next eight channels.



CLOCK SET

The time must be set before you can use the 4 EVENT PROGRAM or TV TIME OUT.



Use THUMB STICK \blacktriangle or \blacktriangledown to set the time, date, and year.

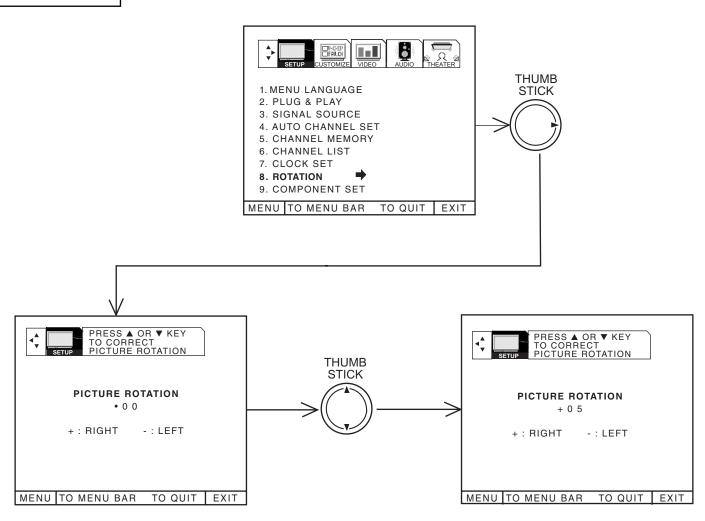
Press THUMB STICK ◀ or ▶ to change position.

Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu when the CURSOR is in the first position.



ROTATION

This feature allows you to adjust Picture Rotation.



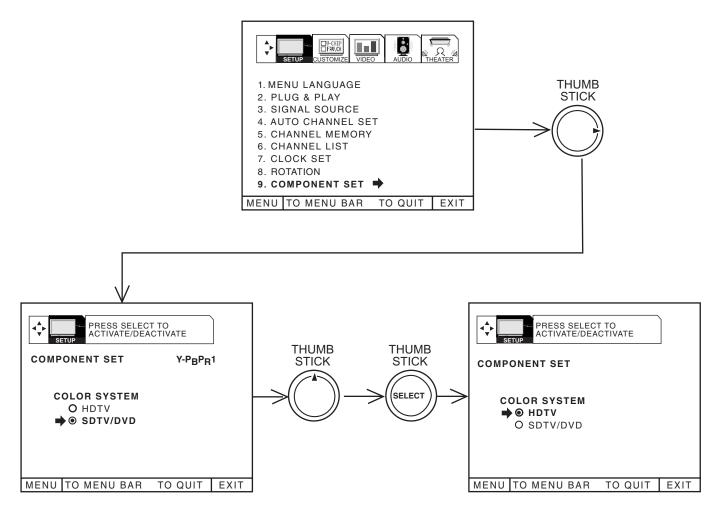
Use THUMB STICK ▲ or ▼ to adjust Picture Rotation right or left.

Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu when the CURSOR is in the first position.



COMPONENT SET

The COMPONENT SET function is very useful when setting up reception High Definition, Standard Definition and NTSC signals.



Press THUMB STICK ▲ or ▼ to highlight then press down on THUMB STICK to select Color System (HDTV, SDTV/DVD) Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

NOTE: Set up a Component Signal (connect component to Y-P_BP_R input) and switch to VIDEO: 2 by pressing the INPUT button on the Remote Control when planning to use the component set function.

COLOR SYSTEM

The COLOR SYSTEM function allows you to automatically change tint and color coordinate for DTV Programs.

HDTV - High Definition Television - Use for High Vision Signal Y- P_BP_R from HDTV Set-Top Box. SDTV /DVD - Standard Definition Television or Digital Video Disc Y- C_BC_R such as DVD (Digital Video Disc Player).

- 1. If Color System is set improperly (does not match actual input signal), the color and tint of the main picture will be abnormal.
- 2. You must be tuned to VIDEO: 2 input and have a component hooked up to the Y-P_BP_R input jacks to access this COMPONENT SET menu.
- 3. All settings will affect only the component input you are currently viewing.





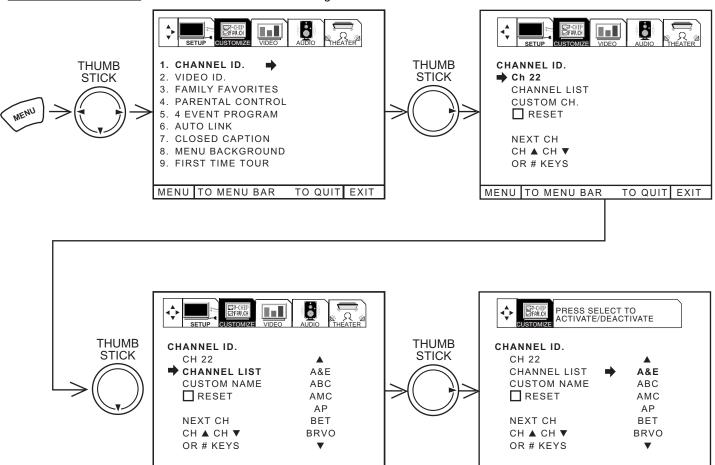
This selection contains advanced features which will make TV viewing easier and more enjoyable.

CHANNEL ID.

Use this feature to give up to 20 channels a name when ANTENNA signal source is selected and up to 60 channels a name when CATV signal source is selected.

MENU TO MENU BAR

TO QUIT EXIT



Press THUMB STICK ▼ to highlight CHANNEL LIST.

Press THUMB STICK ▶ to select preset CHANNEL LIST.

Press THUMB STICK ▼ to scroll through the preset CHANNEL LIST.

Press down on THUMB STICK to select desired CHANNEL ID.

To customize CHANNEL ID, select CUSTOM CH.

Press THUMB STICK ▲ or ▼ to select letter.

Press THUMB STICK ◀ or ▶ to change character position.

(*) represents a blank space.

Press CHANNEL ▲ or ▼ and the number buttons to label additional channels.

MENU TO MENU BAR

Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu when the CURSOR is in the first position.

TO QUIT EXIT

Select RESET to erase a CHANNEL ID.

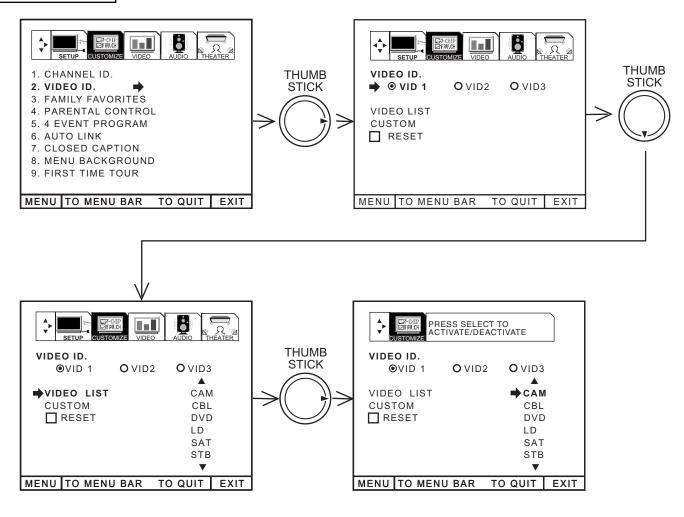
NOTES: 1. If ANT A and ANT B are in the same SIGNAL SOURCE mode (see page 39), the CHANNEL ID for both antenna inputs will be the same.

2. CHANNEL ID will be displayed only when channel is displayed as main picture.



VIDEO ID.

Use this feature to give a name to any of the three video inputs.



Press THUMB STICK ▼ to highlight VIDEO LIST.

Press THUMB STICK ▶ to select preset VIDEO LIST.

Press THUMB STICK ▲ or ▼ to scroll through the preset VIDEO LIST.

Press down on THUMB STICK to select desired VIDEO ID.

To customize VIDEO ID, select CUSTOM.

Press THUMB STICK ▶ to select the video input to be named.

Press THUMB STICK ▲ or ▼ to select letters.

Press THUMB STICK ▶ or ◀ to change position.

Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu when the CURSOR is in the first position.

(*) represents a blank space.

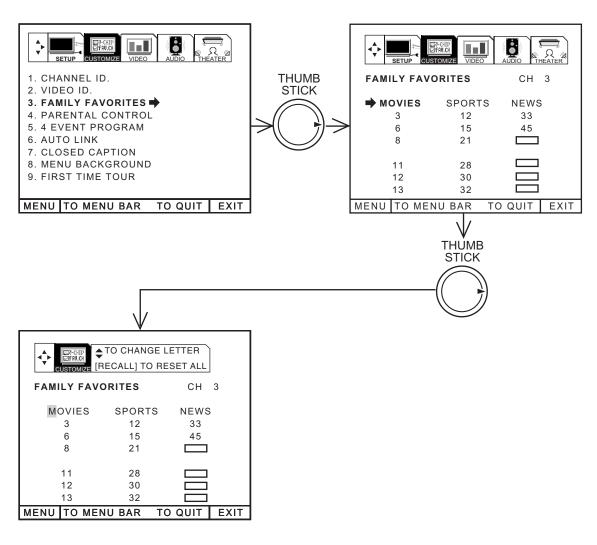
Select RESET to set VIDEO ID to original condition.

NOTE: VIDEO ID will be displayed only when VIDEO input is displayed as main picture.



FAMILY FAVORITES (MENU)

This function allows you to group your favorite channels into six personalized categories that you can rename. A total of 36 channels can be stored in the FAMILY FAVORITES function.



Channel stored with AUTO CHANNEL SET will automatically be stored in FAMILY FAVORITES.

To rename the categories, use the THUMB STICK to highlight the category you would like to rename. Use THUMB STICK ▲ or ▼ to change a letter and THUMB STICK ▶ to select the next character to change.

To enter a channel into a category, highlight the channel location to be stored.

Press CHANNEL ▲ or ▼ or the number buttons to enter the desired channel. Repeat until category has been set with your favorite channels. The channel to be added is displayed in the top right corner of the screen. Enter channel 00 to erase a favorite channel.

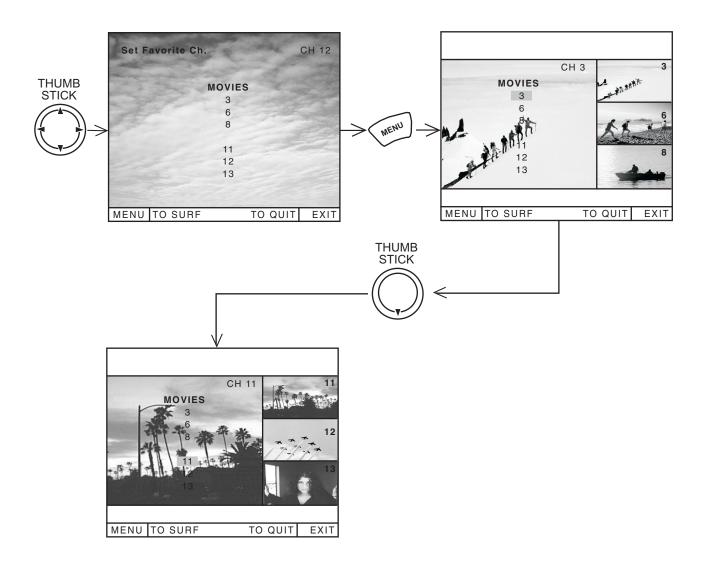
To reset categories and channels back to original factory preset, press RECALL while you are renaming a category.

- 1. This function cannot be accessed when ANT B is the main channel.
- 2. When the input source is not ANT A, the message PLEASE SWITCH TO ANT A will appear.
- 3. Each category contains 2 groups of 3 channels, for a total of 6 channels per category.



FAMILY FAVORITES (OPERATION)

Use this function to display FAMILY FAVORITES selections as sub-pictures or to tune the main picture to a desired favorite channel.



Select a category using THUMB STICK ◀ or ▶.

Press MENU and the category will be displayed as sub-pictures at the right edge of the screen. This is useful for previewing a category. Use THUMB STICK ◀, ▶, ▲ or ▼ to highlight a favorite channel and the TV will automatically tune to that channel. Press EXIT to remove FAMILY FAVORITES OSD from the screen.

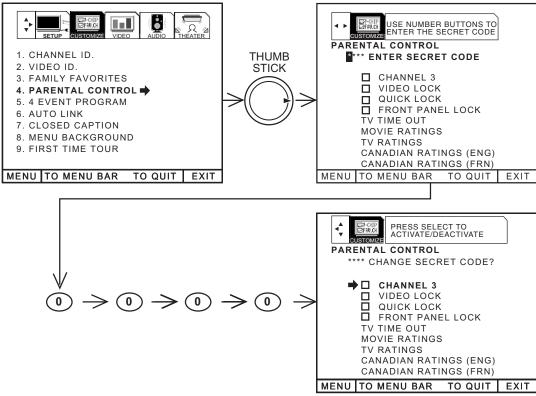
- 1. If a category has some blank channel entries, these channels will appear as black sub-pictures.
- 2. Each category contains 2 groups of 3 channels. Pressing the MENU button will display only 1 group per category, depending on which group you select.



PARENTAL CONTROL

This function will block out the picture and sound of the selected channel or video input. It can also be used to keep the TV from being viewed for a scheduled amount of time that you set.

The code to enter PARENTAL CONTROL is a four digit secret code number. The factory preset code is 0000. Use the number buttons to select secret code.



Use THUMB STICK ▲ or ▼ to highlight function and press down on the THUMB STICK to set ON or OFF.

When CHANNEL is turned on, the picture and sound for the chosen channel will be blocked out.

When VIDEO LOCK is turned on, the picture and sound for all video inputs will be blocked out. To lock the video inputs, you must be tuned to one of the video inputs.

When QUICK LOCK is turned on, the picture and sound for channels 3, 4 on both ANT A/B and all video inputs will be blocked out.

When FRONT PANEL LOCK is turned on, all buttons on the Front Panel will be deactivated, except the POWER button.

When TV TIME OUT is turned on, you can set the BEGIN and END times and the TV cannot be viewed during that time period. (Set clock first.) Use THUMB STICK ▲ or ▼ to highlight ONCE (TV will time out one time only), DAILY (TV will time out every day), WEEKLY (TV will time out one time a week) or OFF (to disable this function) and then press down on THUMB STICK to SELECT your choice.

MOVIE RATINGS, TV RATINGS, and CANADIAN RATINGS are explained in detail in the Parental Control Movie/TV Ratings Reference Guide.

To change the secret code number, select CHANGE SECRET CODE. Enter a new four digit key number you prefer.

If you forget your secret code, use the factory code 7777 to erase your key number. This will reset the secret code number back to the factory preset 0000.

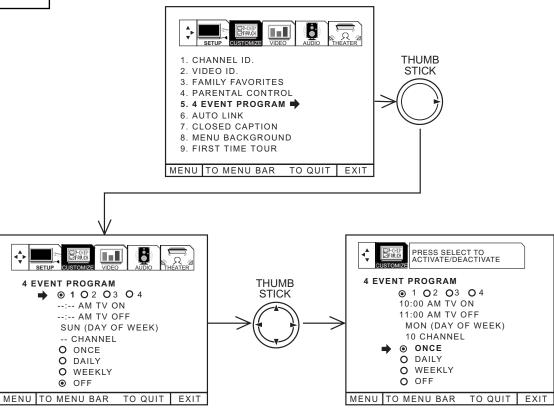
Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

- 1. If ANT A and ANT B are in the same SIGNAL SOURCE mode (see page 38), when a channel is locked, it is locked on both antenna inputs.
- 2. When using TV TIME OUT make sure the clock is set (see page 42).
- 3. When the RECALL button is pressed, text appears on the screen to indicate that CHILD LOCK is activated.



4 EVENT PROG.

This function will automatically turn the TV on and off, one time only, every day, or once a week.



Press THUMB STICK ▶ to select PROGRAM 1, 2, 3, or 4.

Press THUMB STICK ▲ or ▼ to select the time the TV will turn on and off.

Use THUMB STICK ▶ to change position.

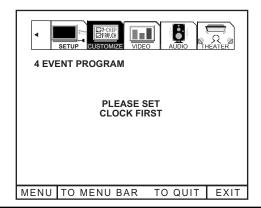
Press THUMB STICK ▲ or ▼ to select the day of the week you want the timer to turn on TV. (If you set timer to turn on DAILY, do not need to set DAY OF WEEK).

Press THUMB STICK ▲ or ▼, CHANNEL (▲) or (▼), or number buttons to set the channel the TV will tune to when it automatically turns on.

Press THUMB STICK ▲ or ▼ to highlight, then press down on the THUMB STICK to select mode ONCE (TV will turn on/off one time only), or mode DAILY (TV will turn on/off at the same time every day), WEEKLY (TV will turn on/off at same time every week) or OFF (to disable this function).

Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

If the clock is not set, you can not use this function and the screen below will appear.



NOTE:

- 1. The OFF Timer will only activate if the TV was turned on or tuned with the ON Timer and no channel selection was made after this time. If you change the channel after the ON Timer has been activated, the OFF Timer will deactivate.
- 2. If no remote control button is pressed after ON Timer is activated, the TV will automatically turn off after three hours.

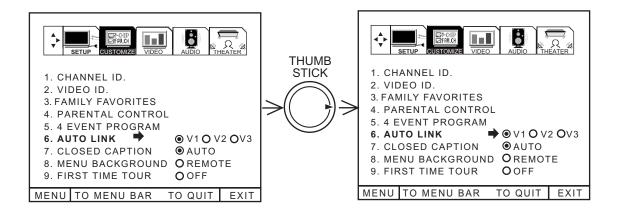


Do not use your TV as a deterrent when away from home by using the ON and OFF TIMERS. For safety, the TV should be turned off when you are away from home.



AUTO LINK

Use this function to automatically turn the TV on and tune to VIDEO: 1, 2 or 3 when it detects a VIDEO input.



Use THUMB STICK ▶ to select Video Input.

Use THUMB STICK ▲ or ▼, then press down on THUMB STICK to change AUTO LINK setting.

When AUTO is selected, the TV will turn on and tune to VIDEO: 1, 2 or 3 automatically, when the VIDEO: 1, 2 or 3 input device is turned on. This is convenient when you want to watch a movie with your VCR, laserdisc player, or DVD player.

When REMOTE is selected, the TV will turn on and tune to VIDEO: 1, 2 or 3 automatically, when the VIDEO: 1, 2 or 3 input device is turned on and the VCR, laserdisc, or DVD play button on your remote control is pressed.

This is convenient when you want to record a movie with your VCR and watch it later.

Select OFF to disable this function.

Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

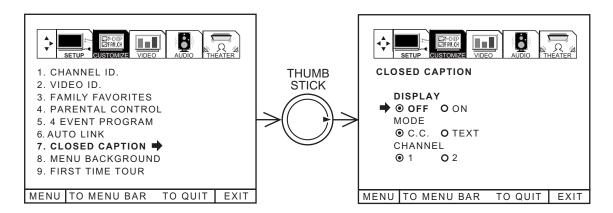
NOTES: 1.

- Once the TV has been turned on using the AUTO LINK feature, it must be reset before AUTO LINK is used again. To
 do this, turn your VCR, laserdisc, or DVD player OFF. This feature is now reset and will turn on your TV as described
 above.
- 2. When using REMOTE mode, any remote control button will substitute for your video input device play button. However, intended operation is for use with your VCR, laserdisc, or DVD play button.



CLOSED CAPTION

Closed Captions are the dialogue, narration, and/or sound effects of a television program or home video which are displayed on the TV screen. Your local TV program guide denotes these programs as or



DISPLAY: ON/OFF will turn the CC display on or off.

MODE: C.C. (Closed Caption) is for the program you are viewing.

TEXT is for additional information such as news reports or a TV program guide. This information covers the entire screen and viewing the TV program is not possible. TEXT may not be available with every **CC** program.

CHANNEL: 1 is used for the primary language (usually English).

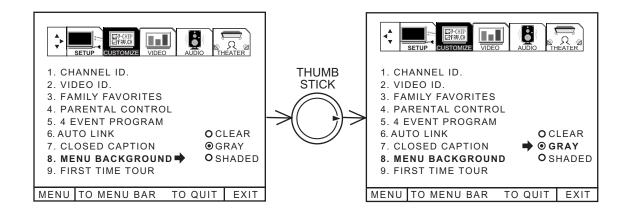
2 is sometimes used for a second language (may vary by region).

Use THUMB STICK ▲ or ▼ to highlight the function to change then press THUMB STICK ▶ to change the function. Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

NOTE: CLOSED CAPTION will not work when viewing a 480P, 720P, or 1080i input via the COMPONENT: Y-PBPR inputs.

MENU BACKGROUND

This function allows you to choose from three menu backgrounds.



Use THUMB STICK ▲ or ▼ to change MENU BACKGROUND setting.

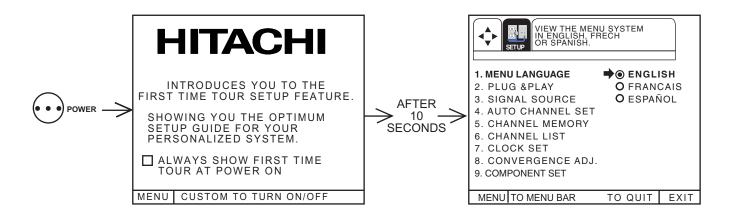
Press EXIT to guit menu or THUMB STICK ◀ to return to previous menu.

Select CLEAR and no background is visible, select GRAY and a gray background is visible (no picture can be seen behind menu screen), select SHADED and a light background is visible.



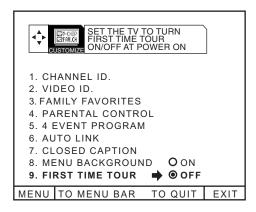
FIRST TIME TOUR

This function introduces you to the First Time Tour Setup Feature, showing you basic TV functions as well as helping you set up your TV or Home Theater System. This feature will be displayed every time your TV is turned on, unless you set FIRST TIME TOUR to OFF.



After 10 seconds an Auto Demonstration will begin.

To disable this function, press the MENU button at any time during the tour, and the following screen will appear.



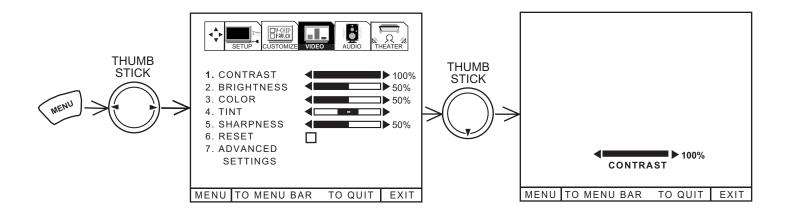
Use THUMB STICK ▲ or ▼ then press down on THUMB STICK to select ON or OFF. Press EXIT to guit MENU or THUMB STICK ◀ to return to previous menu.

- 1. When TV set is turned on, the FIRST TIME TOUR will always appear if it is set to ON.
- 2. To exit during the FIRST TIME TOUR, press the MENU button.





Select VIDEO to adjust picture settings and improve picture quality.



Use the THUMB STICK ▲ or ▼ to highlight the function to be adjusted. Press the THUMB STICK ◀ or ▶ to adjust the function. Press EXIT to quit menu.

NOTE: If CONTRAST is selected, you are adjusting CONTRAST. The additional menu items BRIGHTNESS, COLOR, TINT, and SHARPNESS can be selected and adjusted in the same manner.

CONTRAST Use this f

Use this function to change the contrast between black and white levels in the picture.

BRIGHTNESS

Use this function to adjust overall picture brightness.

COLOR

Use this function to adjust the level of color in the picture.

TINT

Use this function to adjust flesh tones so they appear natural.

SHARPNESS

Use this function to adjust the amount of fine detail in the picture.

RESET

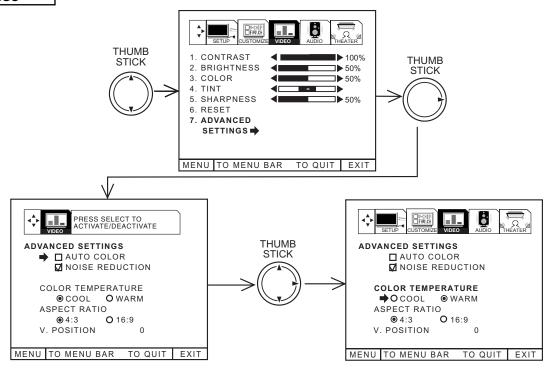
When RESET is selected, press down on THUMB STICK to return video adjustments to factory preset conditions.

- 1. It may be necessary to adjust TINT to obtain optimum picture quality when using the COMPONENT VIDEO Y-P_BP_R input jack.
- 2. If you are using the COMPONENT VIDEO input jack (Y-P_BP_R) and notice that the TINT and COLOR are abnormal, check to make sure that COMPONENT SET COLOR SYSTEM is set properly. (see page 44)



ADVANCED SETTINGS

Your HITACHI color TV has the following functions which will adjust picture settings to produce the highest quality picture possible.



Use THUMB STICK ▲ or ▼ to select function.

Press down on THUMB STICK to select the function setting. When the function has an f in the box, it is ON.

Use THUMB STICK ▶ to change COLOR TEMPERATURE or ASPECT RATIO setting. When the function shows a $_{\odot}$, it is selected. Use THUMB STICK ▶ to enter V. POSITION mode, then use THUMB STICK ♠ or \blacktriangledown to adjust V. POSITION. Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

AUTO COLOR

The AUTO COLOR function automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes. It also maintains natural flesh tones while preserving fidelity of background colors. This function does not operate with a COMPONENT: Y-P_BP_R input signal.

NOISE REDUCTION

The NOISE REDUCTION function automatically reduces conspicuous noise in the picture without degrading picture quality.

COLOR TEMPERATURE

Set this to WARM for hotter colors with more red, or set to COOL for less intense colors with more blue.

ASPECT RATIO

Adjust this when viewing a COMPONENT: Y-PBPR input signal.

- 16:9 Screen changes to 16:9 aspect ratio. (gray bars visible on top and bottom of screen). HDTV signals are normally 16:9 aspect ratio.
- 4:3 Screen changes to 4:3 aspect ratio. (entire screen is filled with video). SDTV and NTSC signals are normally 4:3 aspect ratio.

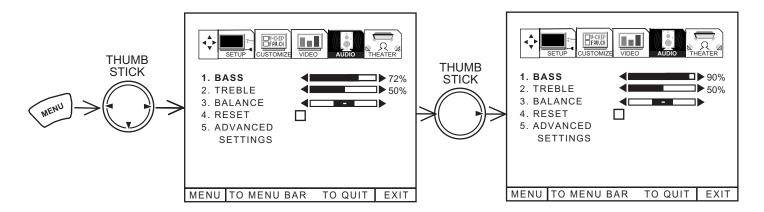
V. POSITION

Adjust this when viewing a COMPONENT: Y-P_BP_R signal. This feature is used to center an HDTV video signal between the top and bottom gray bars. Adjustable range is -10 (video center is toward bottom of screen) to +10 (video center is toward top of screen).





Select AUDIO to adjust the TV to your preference and to improve the sound quality.



Use THUMB STICK ▲ or ▼ to highlight the function to be adjusted.

Press THUMB STICK ◀ or ▶ to adjust the function.

When RESET is highlighted, press down on THUMB STICK to reset audio settings to factory conditions.

Press EXIT to quit menu.

NOTE: If BASS is selected you are adjusting BASS. The additional menu items TREBLE and BALANCE can be selected and adjusted in the same manner.

BASS This function controls the low frequency audio to all speakers.

TREBLE This function controls the high frequency audio to all speakers.

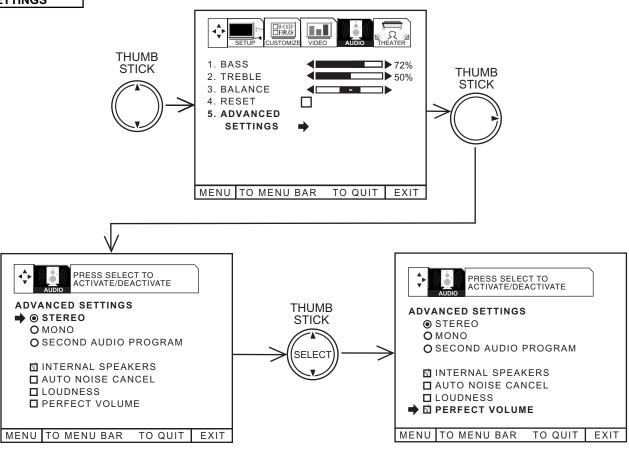
BALANCE This function will control the left to right balance of the TV internal speakers and the AUDIO TO HI FI output.

RESET When RESET is selected, press CURSOR ▶ to return audio adjustments to factory preset conditions.



ADVANCED SETTINGS

Use ADVANCED SETTINGS to improve the sound performance of your TV, depending on listening conditions.



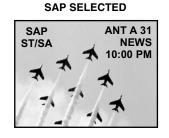
Press THUMB STICK ▲ or ▼ to highlight a function. Press down on THUMB STICK to change the function setting. When the function has a ˆ in the box it is ON, when it has a ⊚ it is selected.

MTS MODE

Multi-Channel Television Sound will allow you to select STEREO (a stereo broadcast), MONO (monaural sound) used when receiving a weak stereo broadcast or SAP (second audio program) which may be a secondary language, weather report, etc.

The sources received will be displayed at the top center edge of the TV. The source you select will be displayed above the sources received. See example below for each selection when both stereo and second audio are received (monaural is always received).

STEREO SELECTED STEREO ANT A 31 NEWS 10:00 PM





INTERNAL SPEAKERS

This function is useful if you prefer to use only speakers from a separate stereo system.

AUTO NOISE CANCEL

This function eliminates the noise between stations. If a channel is tuned and is noisy, this function will automatically eliminate the audio for that channel.

LOUDNESS

This function will improve the quality of both low and high frequency sounds when listening at low volume levels.

PERFECT VOLUME

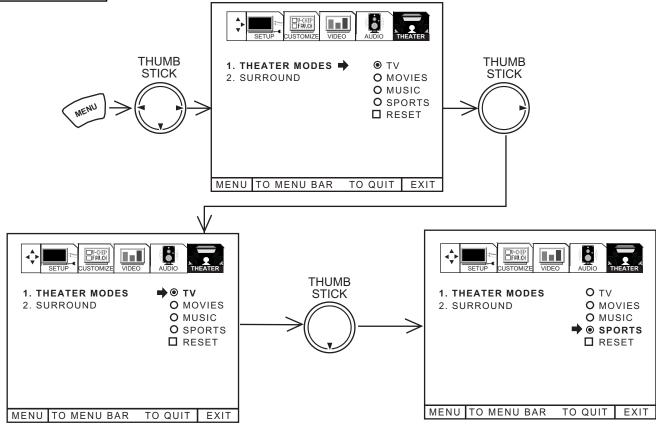
This function will automatically adjust volume so each channel has the same average volume level.





Use this function to choose picture and audio settings for a true home THEATER experience.

THEATER MODES Use this function to choose from automatic picture settings to optimize your TV s performance.



Use THUMB STICK ▲ or ▼ to change THEATER MODES settings.

When TV mode is chosen, the following are automatically set:

CONTRAST - 83%, COLOR TEMPERATURE - COOL, LOUDNESS - ON, PERFECT VOLUME - ON, SRS - OFF.

When MOVIES mode is chosen, the following are automatically set:

CONTRAST - 66%, COLOR TEMPERATURE - WARM, LOUDNESS - OFF, PERFECT VOLUME - OFF, SRS - OFF.

When MUSIC mode is chosen, the following are automatically set:

CONTRAST - 100%, COLOR TEMPERATURE - COOL, LOUDNESS - OFF, PERFECT VOLUME - OFF, SRS - ON.

When SPORTS mode is chosen, the following are automatically set:

CONTRAST - 100%, COLOR TEMPERATURE - COOL, LOUDNESS - OFF, PERFECT VOLUME - OFF, SRS - OFF.

You can customize each of the above modes (TV, MOVIES, MUSIC, and SPORTS) to your preference to increase viewing performance and pleasure, depending upon the video program being viewed. However, if RESET is selected, all modes will reset to the initial conditions as explained above.

When RESET is selected, it will take approximately two seconds to return to factory conditions (SPORTS mode).

Press EXIT to guit menu or THUMB STICK ◀ to return to previous menu.



Surround

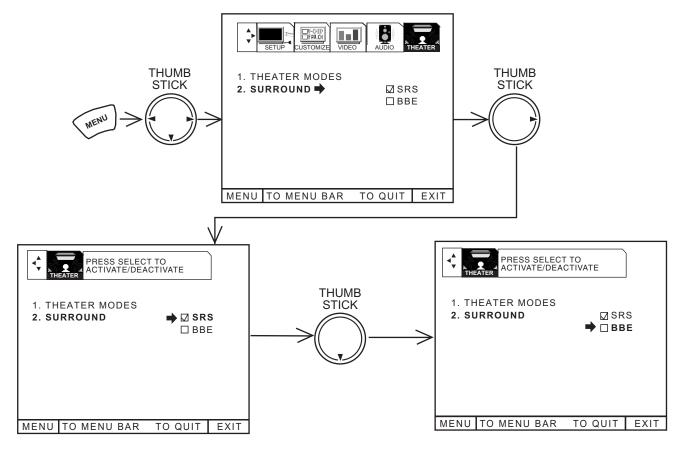
The following surround settings will reproduce the live sound you would hear in concert halls, sports stadiums, movie theaters, etc. with only two speakers.

SRS (b)

Based on the principles of the human hearing system, SRS technology delivers and exciting and realistic 3D Sound experience from just two external speakers (or) the two internal speakers of your HITACHI Television. If your HITACHI Television is connected to an external audio system, SRS will also create an incredible 3D sound experience from two speakers and even enhance a complete multi-speaker surround sound system.

BBE Technology

Sound reproduction quality enhancement system. The BBE technology produces sound that is natural and crisp from just two speakers (or) the two internal speakers of your HITACHI television. If your HITACHI television is connected to an external audio system, BBE will also create an incredible crisp sound experience from two speakers and even more complete and accurate reproduction of the original performance. BBE brings to the listener s ear a more complete and accurate reproduction of the original performance. Each voice, speaking or singing, each instrument or sound effect is presented with its attendant harmonics or partials more clearly audible. The ear can then more easily recognize the unique tonal colors of each sound as though the sound was being produced live.



Use THUMB STICK ▲ or ▼ to change SURROUND settings, then press down on THUMB STICK to select SRS. Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

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CARE OF YOUR HITACHI COLOR TV AND YOUR REMOTE CONTROL

DO

Dust the screen and cabinet with a soft cloth.

Clean the screen with a soft cloth moistened in warm water and dry with a soft cloth. A mild soap may be used if the screen is extremely dirty.

Place your television away from extreme heat, humidity, and extremely dusty places.

Remove the plug from the wall outlet if your television will not be used for a long period of time, for instances, when you go on vacation.

DO NOT

Do not clean your screen or cabinet with strong cleaners, polishes or a chemically treated cloth.

Do not place rubber or vinyl products or cellophane tape on your television.

Do not touch the screen too often.

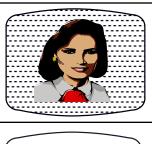
Do not subject the remote control to shocks such as dropping it on the floor, etc. Physical damage to the precision parts may result.

Avoid placing the remote control in a high humidity place or getting it wet. Do not leave it on or near a heater. Excessive heat or moisture may cause the unit to cease operation.

When the batteries run down, remote control operation will become erratic or possibly stop altogether. Replace the old batteries with two new AA size batteries.

Exposure of the viewing screen to prolonged direct sunlight or heat may cause the screen to permanently warp, resulting in a distorted picture.





¥ IGNITION NOISE:

Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills, and other electrical appliances.



¥ GHOSTS:

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or some other objects. Changing the direction or position of the antenna may improve reception. Ghosting may also be caused by defects in the antenna system such as unshielded leads or connecting several sets to the same antenna without using multiple antenna couplers.



¥ SNOW:

If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.



¥ RADIO FREQUENCY INTERFERENCE:

The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.

NOTE:

The TV set can generate sound distortion in external devices such as a radio. Please separate radio equipment from the TV set to a considerable distance.



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No Picture, no sound		•	•											,
Sound OK, picture poor	•			•	•	•	•	•	•	•				
Picture OK, sound poor	•			•	•	•	•	•					•	
Picture blurred	•			•	•	•	•	•						
Lines or streaks in picture				•	•	•	•	•						
Poor reception on some channels				•	•	•	•	•						
Picture rolls vertically				•				•						
No color	•			•	•	•	•				•			
Poor color	•			•	•	•	•				•	•		

HITACHI Color Television incorporates advanced power surge protection technology designed to protect against component or circuit damage due to external or internal voltage power surges.

IF YOUR TELEVISION SHOULD APPEAR TO HAVE A LOSS OF POWER, PLEASE FOLLOW THIS PROCEDURE:

- 1. Press the power switch (ON/OFF switch) once.
- 2. If there is still no power, wait 30 seconds and press the power switch again.
- 3. If there is still no power, unplug the power cord from the wall. Wait 30 seconds and plug the power cord back in. Press the power switch again.

This protective technology should provide for years of lasting entertainment from your HITACHI Color Television.

USEFUL INFO



Features:

- ¥ Superfine Picture Quality700 Line Horizontal Resolution
- Remote (Controls many VCR brands, cable boxes, satellite boxes, and other audio equipment.)
- ¥ High Definition On-Screen Display (UltraTEC BIT-MAP)
- ¥ Full Set of Input Jacks, including S-VIDEO
- ¥ COMPONENT VIDEO: Y-C_B/C_R and Y-P_B/P_R
- ¥ Closed Caption Decoder
- ¥ High Resolution Picture-In-Picture with Freeze
- ¥ Dual Antenna Inputs
- ¥ 3 Dimensional Y/C Comb Filter
- ¥ ON SCREEN PLUG and PLAY guide
- ¥ Full 1080i HDTV capable with Set-Top Box.
- ¥ SRS Technology.
- ¥ **BBE** Technology.
- ¥ Flex Converter Technology

Screen Size: 32V (32 inches measured diagonally) 32UDX10S 36V (36 inches measured diagonally) 36UDX10S

Inputs:

¥	Power InputAC 120V, 60Hz
¥	Power Consumption
	-Refer to rear panel of back of TV
¥	Antenna input impedance
¥	Channel coverage
	VHF-Band
	UHF-Band
	CATV Mid Band
	Super BandJ-W
	Hyper Band
	Ultra Band
¥	Video1.0Vp-p, 75 Ohm
¥	S-Video
	Luminance (Y)1.0Vp-p, 75 Ohm
	Chrominance (C)0.286Vp-p, 75 Ohm
¥	Component Video
	Luminance (Y)
	Chrominance (C_B/C_R , P_B/P_R)0.7Vp-p, 75 Ohm
¥	Audio input Impedance
¥	Average input level

Outputs:

¥	Video		75 Ohm
¥	Audio	470mVrms,	1k Ohm

Dimensions:

32UDX10S

¥	Height (in.)	26 25/32
¥	Width (in.)	31 3/32
¥	Depth (in.)	21 13/16
¥	Weight (lbs.)	113

36UDX10S

¥	Height (in.)	29 9/32
¥	Width (in.)	34 13/32
¥	Depth (in.)	24 13/32
¥	Weight (lbs.)	153

NOTE: Due to improvements, specifications in this operating guide are subject to change without notice.



HITACHI



Hitachi America, LTD. **Home Electronics Division**

Hitachi has made every effort to assure you hours of trouble free operation from your unit. However, should you require service, a network of Hitachi Authorized Service Facilities has been established in all 50 states and Puerto Rico. Each facility will provide you with convenient and expedient assistance. Our service hotline operator will direct you to the Hitachi Authorized Service Facility nearest you. Just present proof of purchase and/or delivery receipts to the Hitachi Authorized Service Facility, and service will be rendered in accordance with the terms of the limited warranty as stated on your warranty card or operating guide.

Should you have any questions regarding warranty, service, operation, or technical assistance, please contact:

Hitachi America, LTD. **Home Electronics Division** 1855 Dornoch Court San Diego, CA 92154

In Canada, please contact: 1-800-HITACHI (1-800-448-2244)

> HITACHI (HSC) Canada Inc. 6740 Campobello Road Mississauga, Ont. L5N 2L8

NOTES

